ORDER NO. VRD8902M109

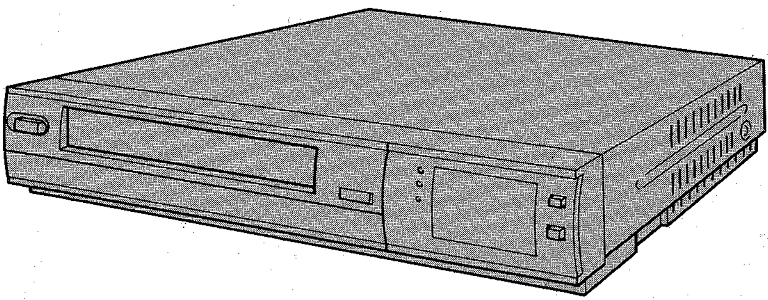
Service Manual

Video Cassette Recorder

Panasonic VHS HQ
PAL

NV-L25$^{EG}_{B}$

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 220 V 50/60 Hz (NV-L25EG) 240 V 50/60 Hz (NV-L25B)	
	CONSUMPTION: 22 W	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL	
TV TUNER SYSTEM	NV-L25EG	VHF I : CHE2~CHE4 VHF III: CHS4~CHE12 VHF H: CHS11~CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced
	NV-L25B	UHF: CH21~CH69 (PAL I) 75Ω unbalanced
RF OUT SYSTEM	UHF: CH36±4 (PAL/SECAM G) 73^{+2}_{-3} dBμ, 75Ω terminated (NV-L25EG) UHF: CH36±4 (PAL I) 73±3 dBμ, 75Ω terminated (NV-L25B)	
VIDEO	HEADS: 4 rotary heads 1 pair for recording, playback (L-R heads) 1 pair for trick play (L′-R′ heads)	
	INPUT: VIDEO IN Connector (BNC type) 1.0 Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0 Vp-p, 75Ω terminated (NV-L25EG)	
	OUTPUT: VIDEO OUT Connector (BNC type) 1.0 Vp-p, 75Ω terminated (NV-L25B) EURO AV Connector (21 pin) 1.0 Vp-p, 75Ω terminated (NV-L25EG)	

ITEM	SPECIFICATION
AUDIO	HEAD: 1 Stationary head (Normal Audio)
	INPUT: AUDIO IN Connector (Phono type) More than −10 dBV (316 mV), more than 50 kΩ EURO AV Connector (21 pin) More than −10 dBV (316 mV), more than 10 kΩ (NV-L25EG) MICROPHONE JACK 70 dBV
	OUTPUT: AUDIO OUT Connector (Phono type) −6 dBV (500 mV), Less than 1 kΩ (NV-L25B) EURO AV Connector (21 pin) −6 dBV (500 mV), Less than 1 kΩ (NV-L25EG)
TAPE FORMAT	VHS Cassette tape (Tape width 12.7 mm)
TAPE SPEED	SP: 23.39 mm/s LP: 11.695 mm/s (NV-L25B) Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape (NV-L25B) FF/REW Time 5.5 min. with 180 min. type tape
DIMENSIONS	380(W) × 82(H) × 343.5(D) mm
WEIGHT	5.2 kg (NV-L25EG) 5.0 kg (NV-L25B)
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red remote controller (Build in Digital Scanner type) 1 pc. Programme sheet 1 pc. AC Mains Lead

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.
Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.
Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.
In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.
Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...
Section 4 contains exploded views and parts list.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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REMARKS (NV-L25EG ONLY)

1. It is possible to receive, record and play back colour broadcasts from East Germany (DDR) on this video recorder.
2. When a video tape that was recorded with a colour TV broadcast from East Germany on this VTR is played back on a SECAM (France) or on a PAL VTR, the picture may be in black and white.
3. When a video tape recorded on a SECAM (France)VTR or a SECAM (France) pre-recorded video tape is played back on this VTR, the picture is in black and white.

SERVICE INFORMATION

1-1.HOW TO CHECK THE CRACKED CHIP PART

(1) Apply heat to soldered portions of chip part by Soldering Iron for about 2 ~ 3 seconds.

(2) If chip part is cracked, chip part will be broken completely.

(CAUTIONS) When Soldering Iron puts on soldering portion of chip part too long time, chip part may be broken even if it is normally.

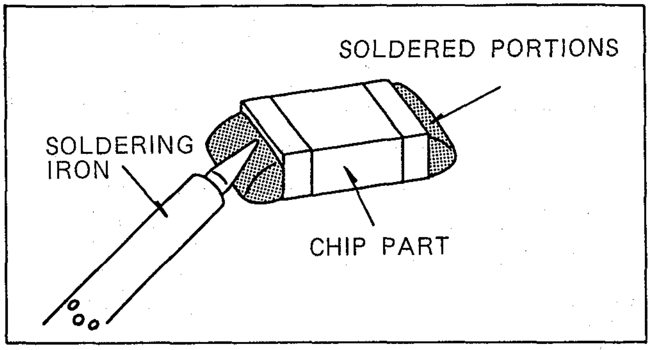


FIG. G1

(NOTE) Regarding the intermittent fault, the main causes are bad soldering or cracking of chip part.

1-2.HOW TO REPLACE THE CHIP PART

1) REMOVAL (RESISTOR, CAPACITOR, etc...)

(1) Presolder the one side of soldering portion for chip part and grasp the chip part by tweezers.

(2) Melt the presoldered portion. And then remove the chip part with a twisting motion while melting the soldering portion of another side quickly.

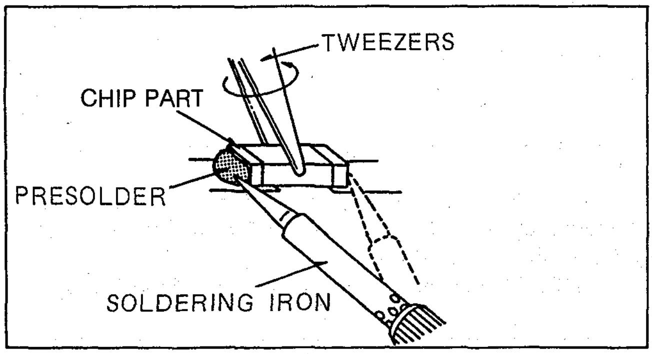


FIG. G2

2) REMOVAL (transistor, diode, etc...)

(1) Grasp the chip part with tweezers and melt the solder of one lead.

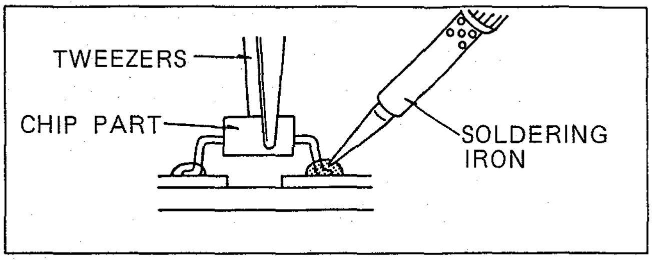


FIG. G3

(2) Lift the side of that lead upward.

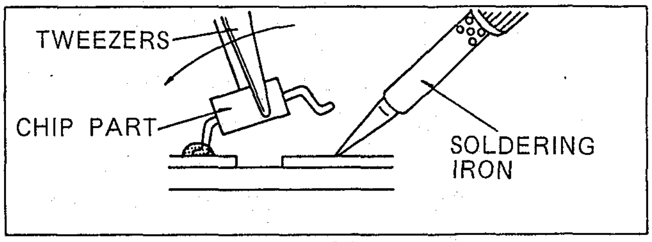


FIG. G4

(3) Simultaneously heat the solder of the two remaining leads and lift part to remove.

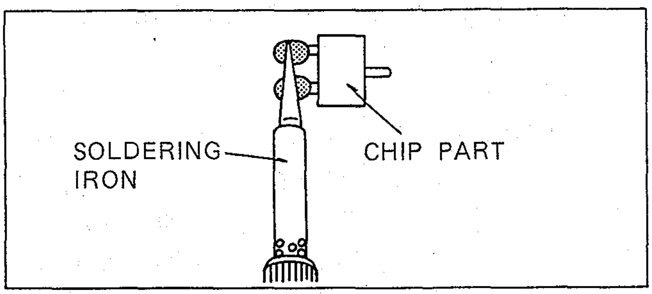


FIG. G5

3) INSTALLATION

(1) Presolder the one side of contact point on the circuit board.

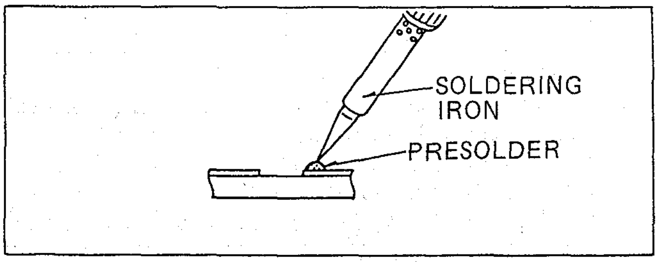


FIG. G6

(2) Install the chip part by using tweezers while applying the heat presoldering portion by Soldering Iron.

(3) Solder the another side of electrode for chip part.

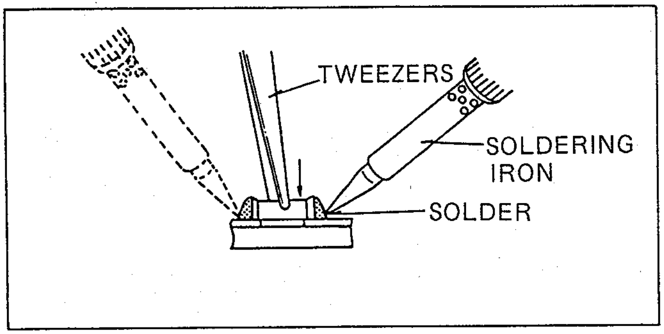


FIG. G7

1-3.HOW TO REMOVE THE FLAT-IC

(WITH HOT-AIR FLAT-IC DESOLDERING MACHINE)

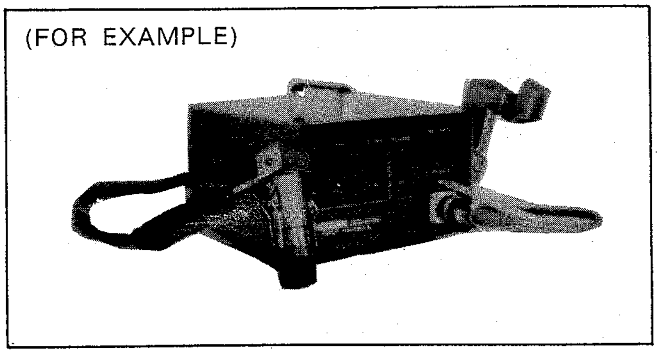

(FOR EXAMPLE)

FIG. G8

(1) Prepare the HOT-AIR FLAT-IC DESOLDERING MACHINE. And then apply hot air to FLAT-IC about 5 ~ 8 seconds.

(2) Remove the FLAT-IC with tweezers while applying the hot air.

(CAUTIONS) When applying the hot air for long time, the chip parts around the FLAT-IC may be had some damege.

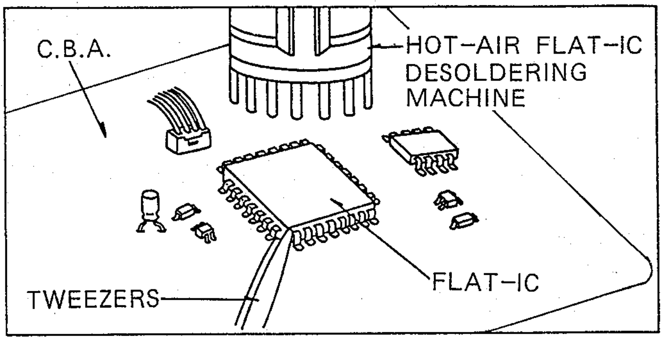


FIG. G9

(WITH SOLDERING IRON)

(1) Remove the solder of all leads of FLAT-IC by using de-solder braids.

(NOTE) In order to remove the solder of all leads of FLAT-IC easily, apply the Soldering Flux to all leads of FLAT-IC.

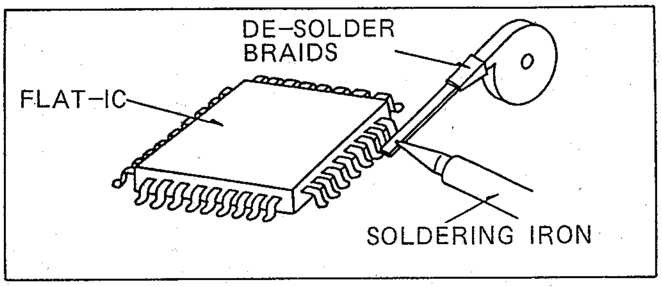


FIG. G10

(2) Lift the leads of FLAT-IC upward one by one using sharp pin while applying the heat by soldering iron.

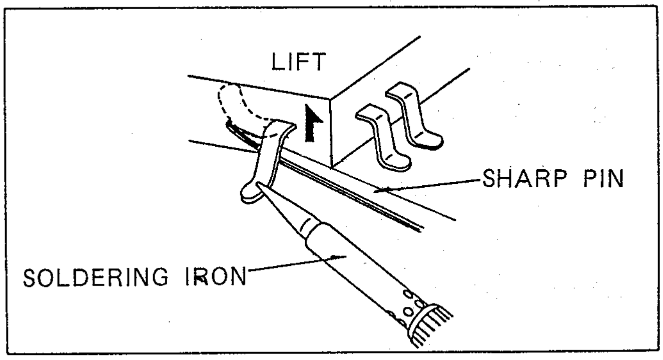
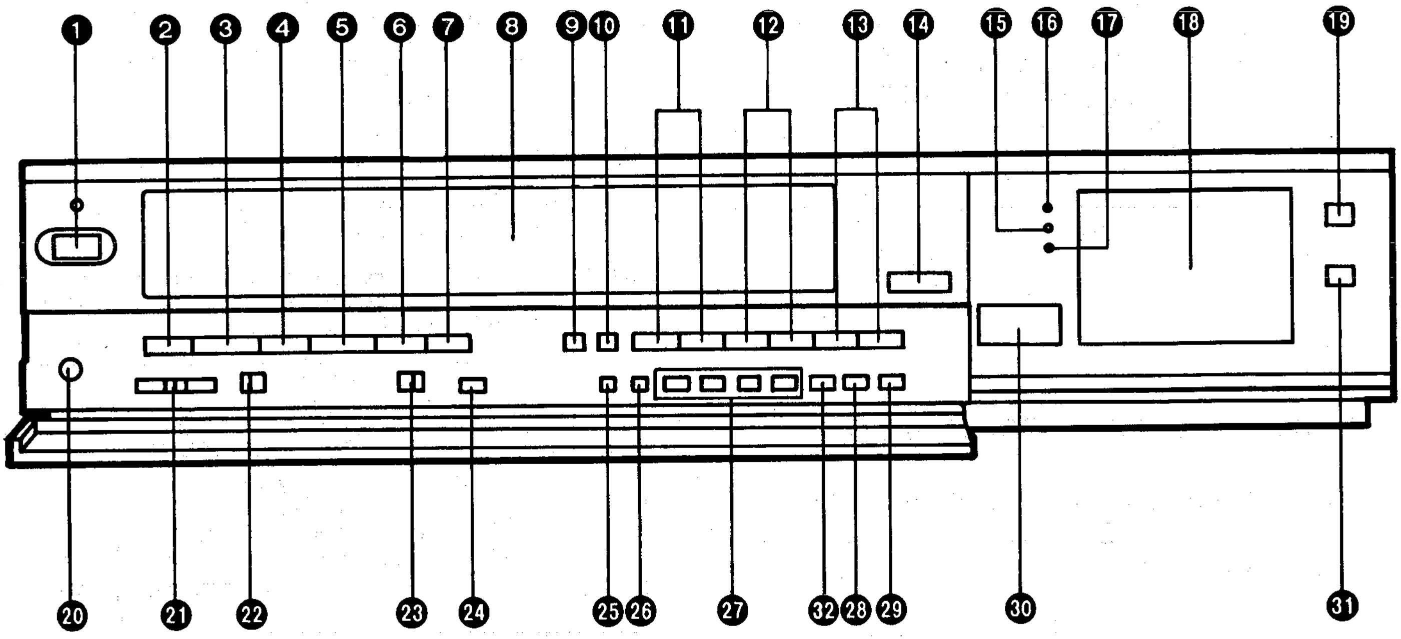


FIG. G11

SECTION 1
GENERAL DESCRIPTIONS

1-1. CONTROLS AND COMPONENTS

FRONT



① VTR On/Off Switch with Indicator

② Rewind ◀◀/Review ◀◀ Button

③ Play/×2 Button

④ Fast Forward ▶▶/Cue ▶▶ Button

⑤ Stop Button (■)

⑥ Pause/Still Button (▮▮)

⑦ Record Button (●)

⑧ Cassette Compartment

⑨ Audio Dubbing Button

⑩ Insert Editing Button

⑪ Channel Selection Up and Down Buttons

⑫ OTR On Buttons

⑬ OTR Off Buttons

⑭ Eject Button (▲)

⑮ Audio Dubbing Indicator

⑯ Insert Editing Indicator

⑰ Digital Tracking Indicator

⑱ Multi-Function Display

⑲ Clock/Counter Selector

⑳ Microphone Input Socket

㉑ Picture Sharpness Control

㉒ Noise Filter/Edit Selector

㉓ Digital Tracking Selector

When this selector is selected for "ON" and Tracking (+) and (−) button is pressed simultaneously, unit will search the best tracking position automatically. During searching , Digital tracking indicator will be flashing .
In the case of "OFF" position , when (+) and (−) button is pressed simultaneously , tracking is set for "electrical centre fix position" automatically.

㉔ Tape Speed Selector (NV-L25B)

㉕ Clock Button

㉖ Preset/Normal Button

㉗ Timer Controls

㉘ Memory Button

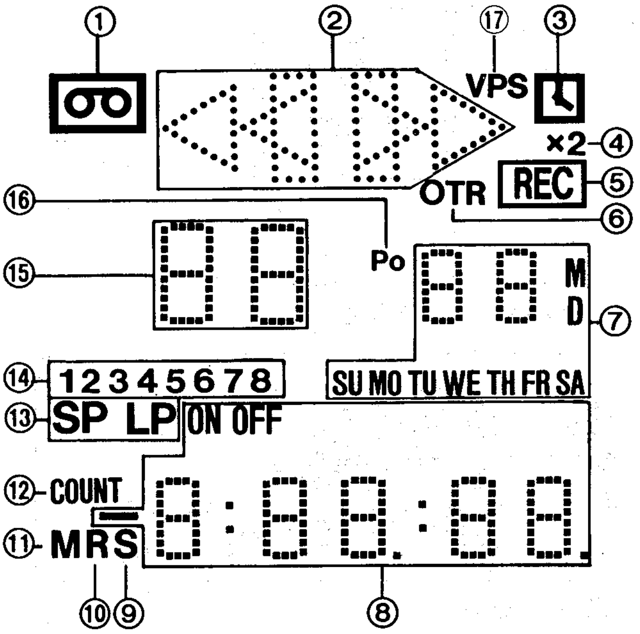
㉙ Timer Record Button

㉚ Infra-red Remote Control Receiver

㉛ Reset Button

㉜ AFC/VPS Button (NV-L25EG)

Multi-Function Display



① Cassette-in Indicator

② Tape Running Display

③ Timer Recording Indicator

④ Double Speed Indicator

⑤ Recording Indicator

⑥ OTR Indicator

⑦ Date Display

⑧ Clock/Counter Indicator

⑨ Search Indicator

⑩ Repeat Indicator

⑪ Memory Indicator

⑫ Counter Mode Indicator

⑬ Tape Speed Indicator (NV-L25B)

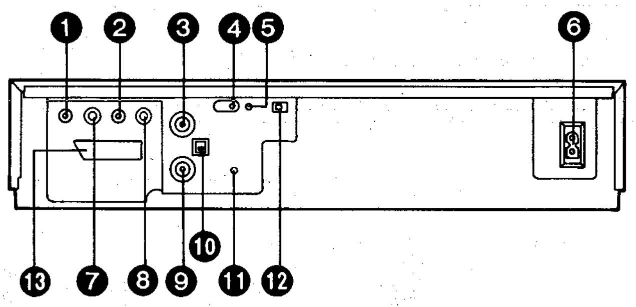
⑭ Timer Programme Number

⑮ Channel Display

⑯ Position Indicator

⑰ VPS Indicator (NV-L25EG)

REAR



❶ Audio Input Socket

❷ Audio Output Socket (NV-L25B)

❸ RF Output Socket

❹ Vertical Lock Controls

❺ Synchro Edit Socket

❻ AC Mains Lead Socket

❼ Video Input Socket

❽ Video Output Socket (NV-L25B)

❾ RF Input Socket

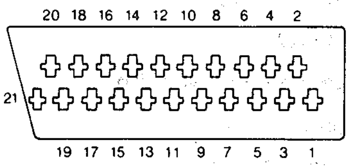
❿ RF Signal Level Switch (NV-L25B)

⓫ Video Playback Channel Selector

⓬ Test Signal Switch

⓭ Euro AV Socket (NV-L25EG)

Conections of the Euro AV Socket

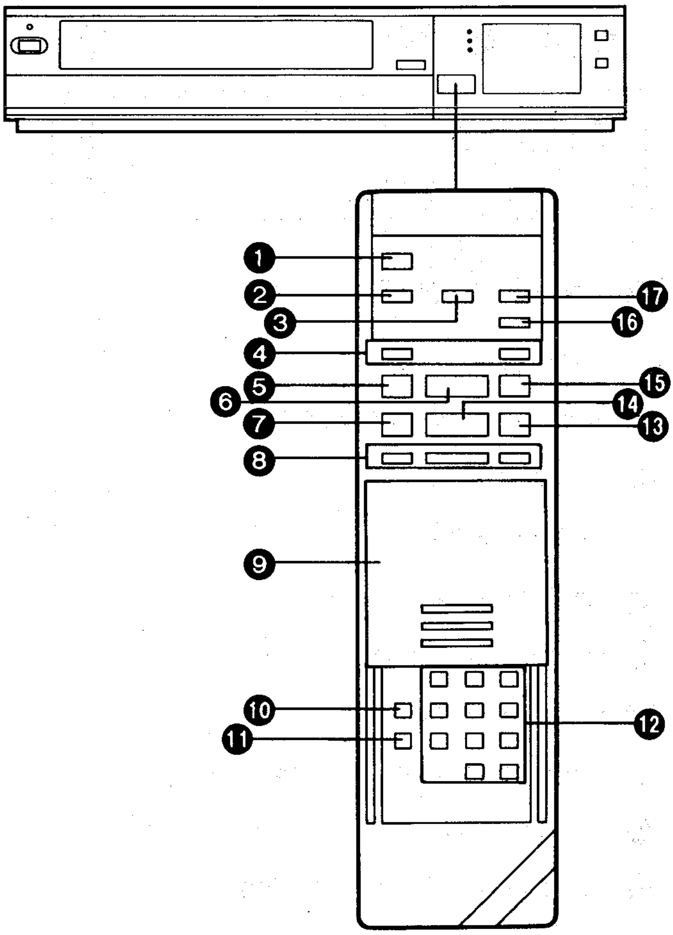


1 AUDIO OUTPUT
2 AUDIO INPUT
3 AUDIO OUTPUT
4 AUDIO GND
5 No connection
6 AUDIO INPUT
7 No connection
8 SWITCHING VOLTAGE
9 No connection
10 No connection

11 No connection
12 Noconnection
13 Noconnection
14 Noconnection
15 Noconnection
16 Noconnection
17 VIDEO GND
18 No connection
19 VIDEO OUTPUT
20 VIDEO INPUT
21 GND

1-2. INFRA-RED REMOTE CONTROLLER

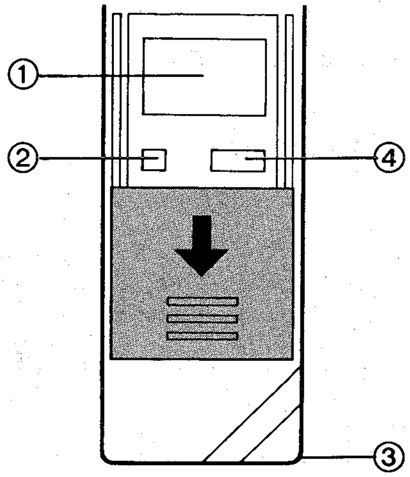
Part Number: VEQ0936 (NV-L25EG)
VEQ0935 (NV-L25B)



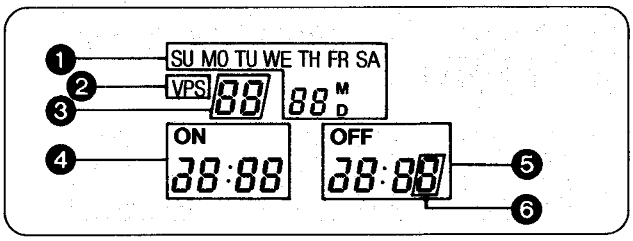
- ❶ **VTR On/Off Button**
- ❷ **Clock/Counter Selector**
- ❸ **Reset/Index Button**
- ❹ **Record Buttons (●)**
- ❺ **Pause/Still Button (❚❚)**
- ❻ **Stop Button (■)**
- ❼ **Rewind ◀◀/Review ⊟ Button**
- ❽ **Slow Buttons**
- ❾ **Mode Selector Cover**
- ❿ **Time Search Button**
- ⓫ **Monitor Button**
- ⓬ **Programme Position (Channel) Selector Buttons**
- ⓭ **Fast Forward ▶▶/Cue ⊟ Button**
- ⓮ **Play/× 2 Button (▶)**
- ⓯ **Still Advance Button (❙❙▶)**
- ⓰ **Reverse Play Button**
- ⓱ **Memory/Repeat/Search Button**

Use as Digital Scanner

Slide the Mode Selactor Cover Downward.



① **Bar Code Reader Display**



- ❶ Date Display
- ❷ VPS Indicator (NV-L25EG)
- ❸ Channel Display
- ❹ Start Time Display
- ❺ End Time Display
- ❻ Check Indicator

② **Digital Scanner On/Off Button**

③ **Bar Code Reading Section**

④ **Transmit Button**

Note:
To be able to use the unit as Remote Controller, press the Digital Scanner On/Off Button (the indications in the LCD Display will disappear.

3.REMOVAL OF THE FRONT PANEL UNIT

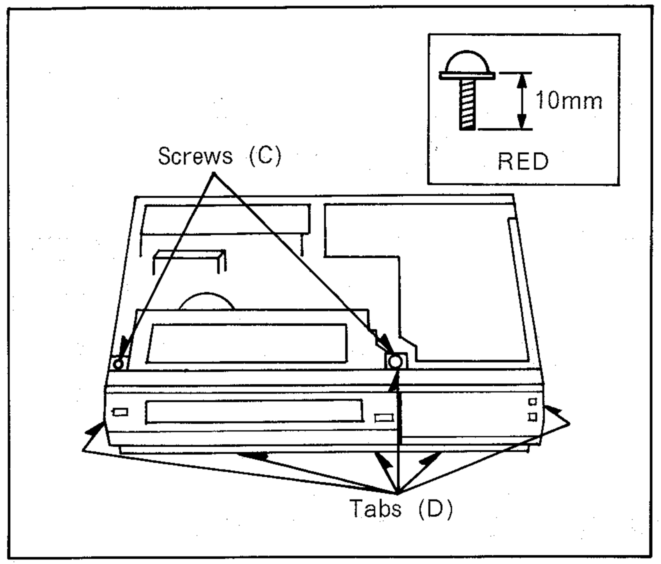


Fig. D4

Remove ... 2 Screws (C)
Unlock ... 6 Tabs (D)

4. REMOVAL OF THE OPERATION C.B.A. AND TIMER C.B.A.

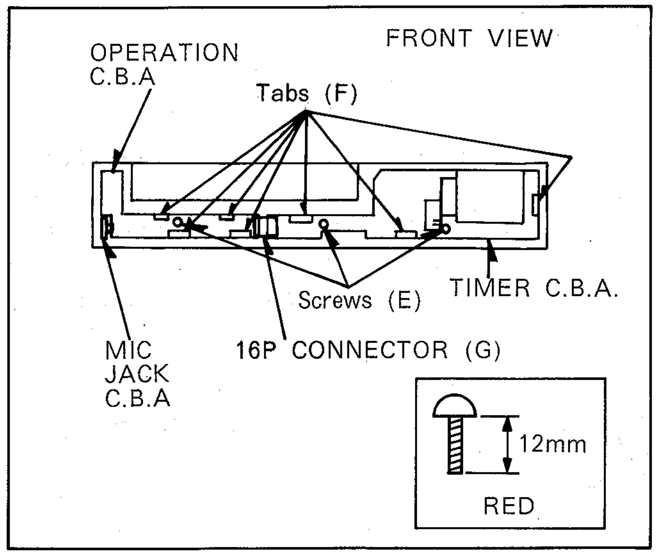


Fig. D5

Remove ... 3 screws (E)
Unlock ... 7 Tabs (F)

NOTE:
There is 16P connector (G) which connects between Operation C.B.A. and Timer C.B.A. When removing the connector (G) from Timer C.B.A., lift the part indicated by the arrow and remove it with Operation C.B.A. as show in Fig. D6.

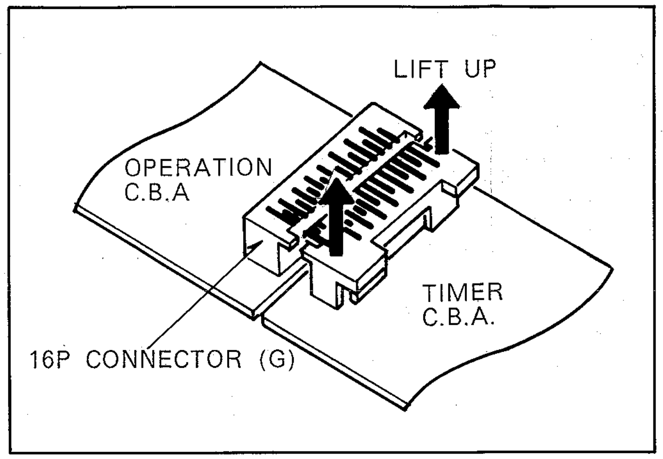


Fig. D6

NOTE:
If the connector is turned for checking the operatrion C.B.A. and Timer C.B.A.,the short circuit could be made between reed wires.
Be sure there is no short circuit between reed wires and check the both Operation & Timer C.B.As.

5. REMOVAL OF THE MAIN C.B.A. AND POWER SUPPLY UNIT

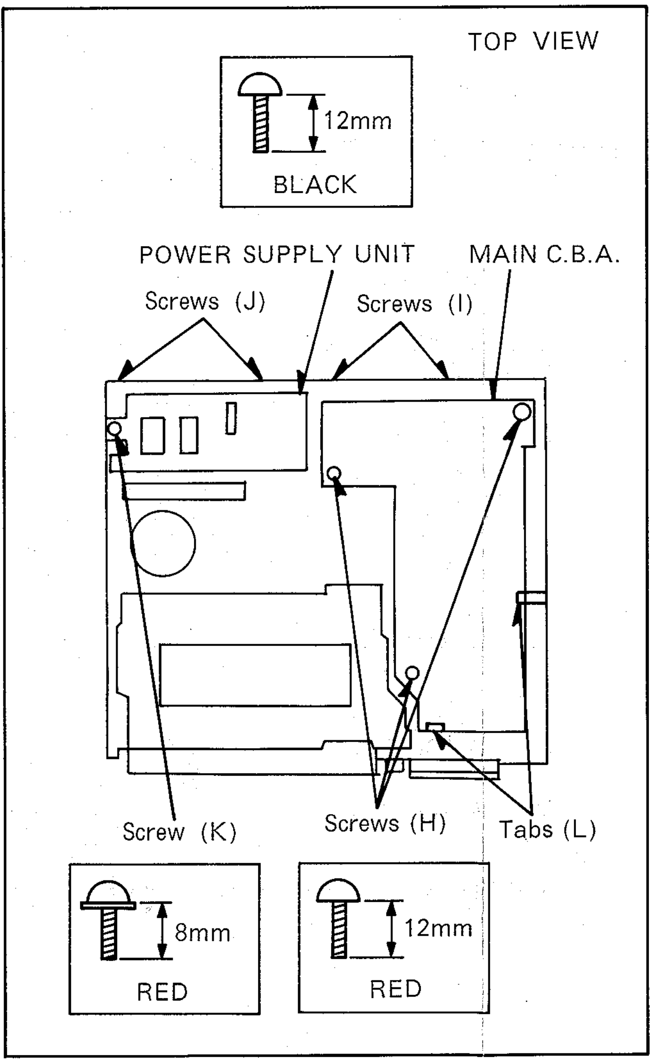


Fig. D7

REMOVAL OF THE MAIN C.B.A.

Remove ... 3 Screws (H), 2 Screws (I)
Unlock ... 2 Tab (L)

REMOVAL OF THE POWER SUPPLY UNIT

Remove ... Screw (K) , 2 Screws (J)

6. SERVICING

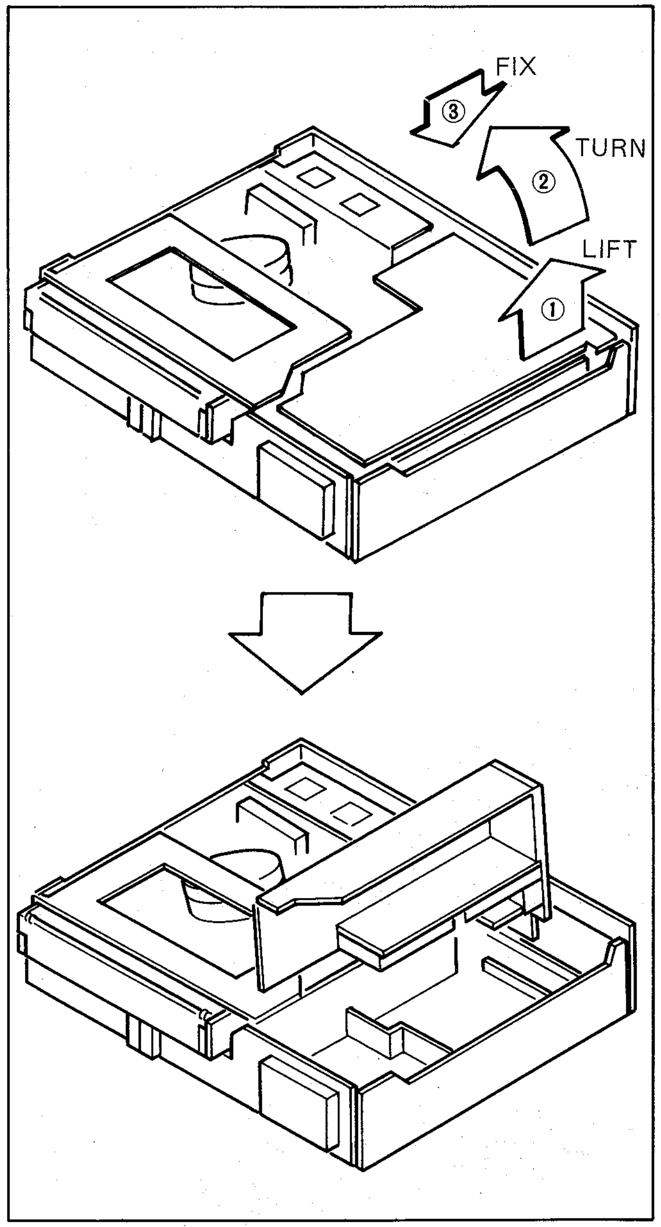


Fig. D8

7. REMOVAL OF THE CASSETTE COMPERTMENT

Remove 2 screws (M) and slide the cassette holder until appearing 2 screws (N) by turning (clockwise) the capstan rotor unit (located in the bottom side) and then remove 2 screws (N).
Remove the flexible wire from connector P1503 mounted on Take-up photo Tr. C.B.A., then carefully pull out the cassette compartment.

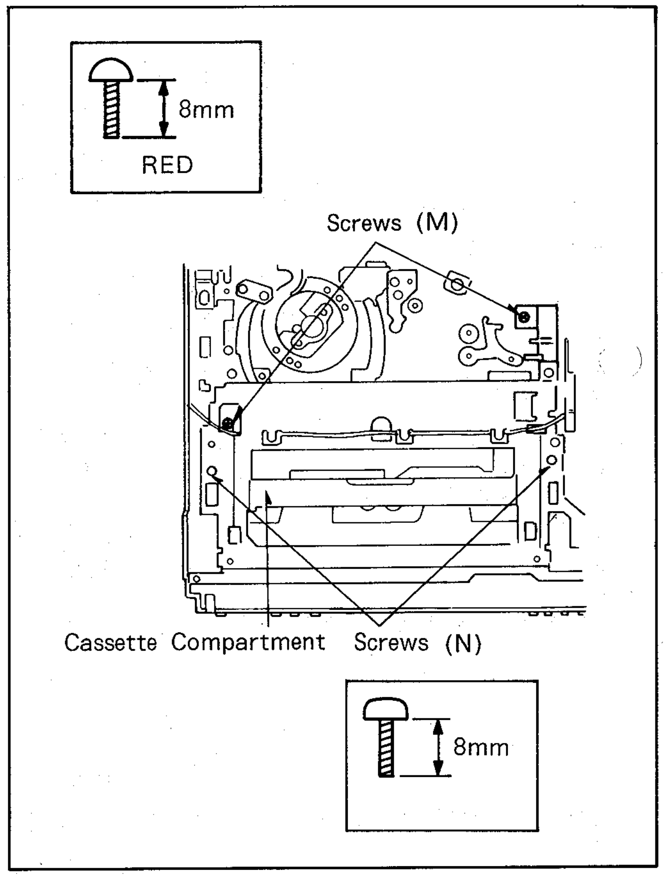


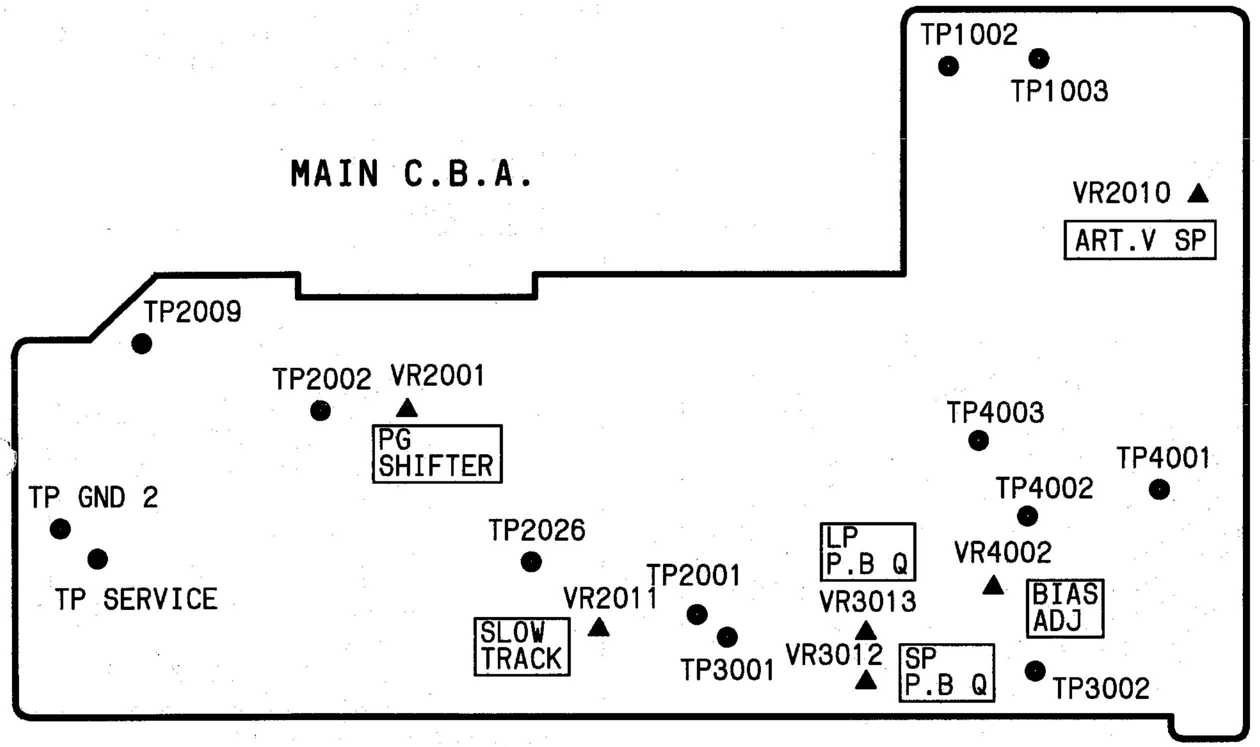
Fig. D9

2-2. MECHANICAL ADJUSTMENT PROCEDURES

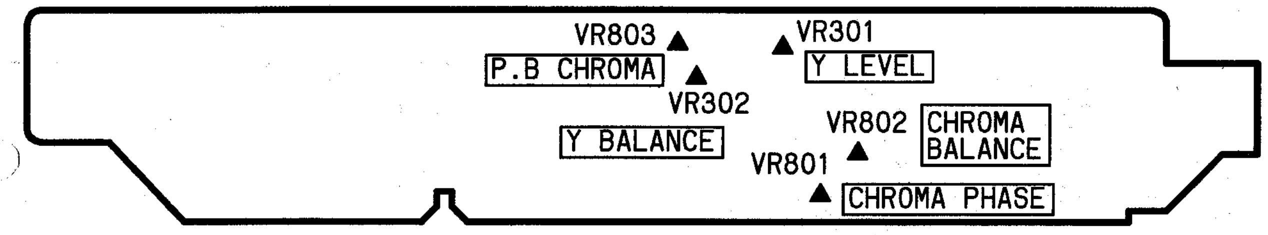
This mechanical chassis of these models NV-L25EG/B is the same as G-REV. Mechanical Chassis.
Therefore please refer to the Service Manual G-REV. Mechanical Chassis (Order No. VRD8901M101).

LOCATION OF TEST POINTS & CONTROLS

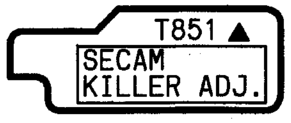
MAIN C.B.A.



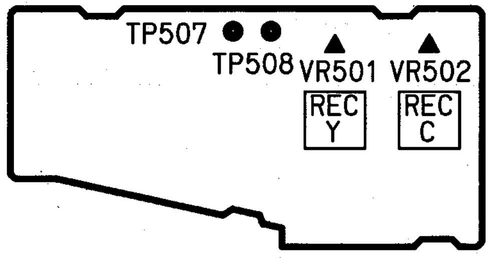
SUB MAIN C.B.A.



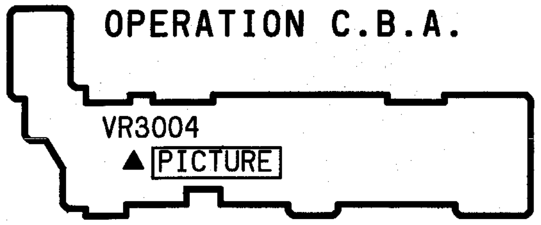
DDR SECAM PACK C.B.A. (NV-L25EG)



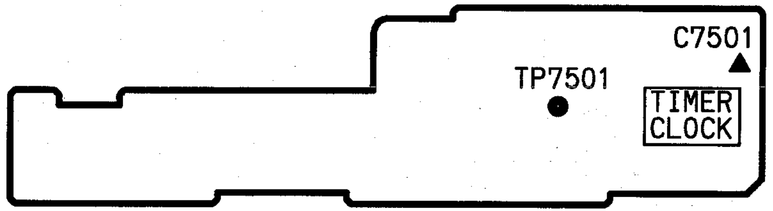
HEAD AMP C.B.A.



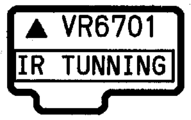
OPERATION C.B.A.



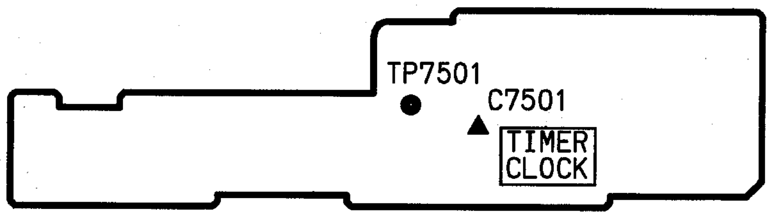
TIMER C.B.A. (NV-L25EG)



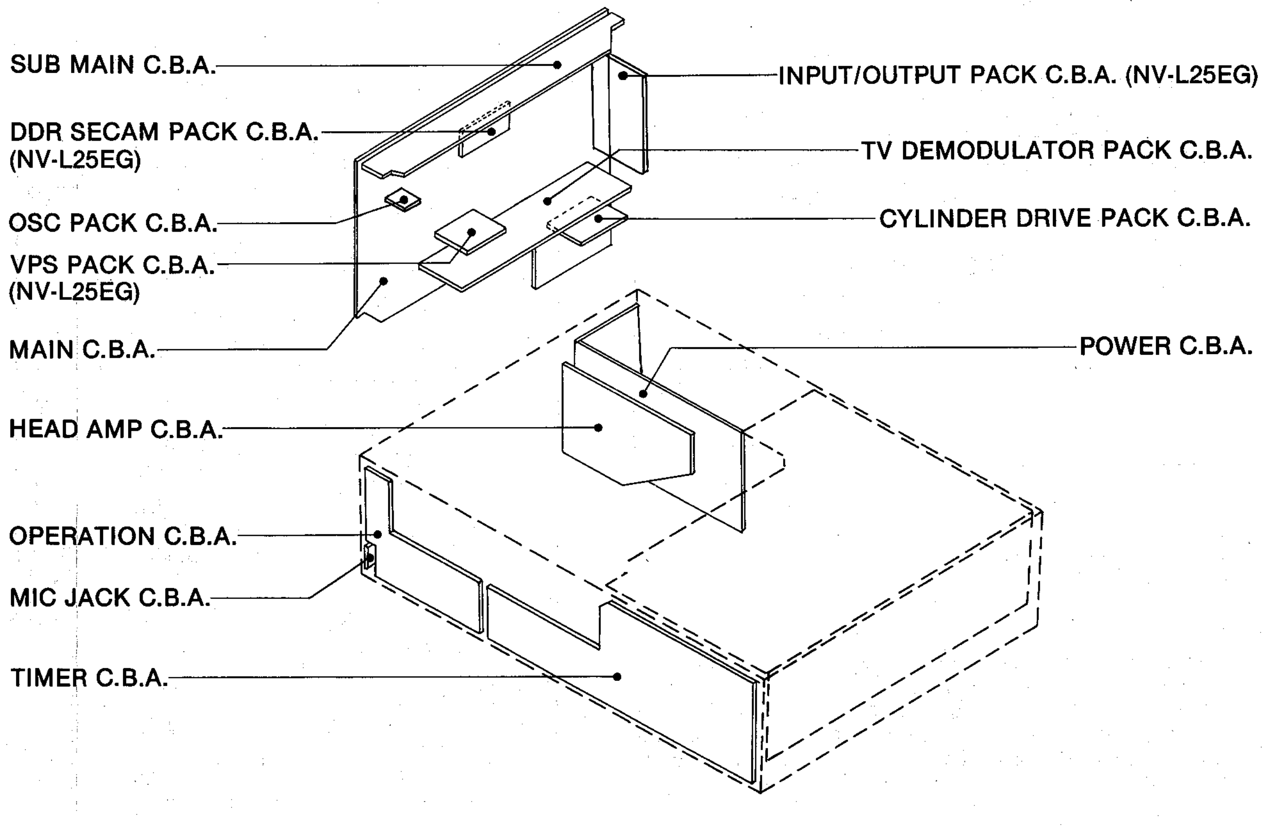
IR RECEIVER C.B.A.



TIMER C.B.A. (NV-L25B)



CIRCUIT BOARD LAYOUT


SUB MAIN C.B.A.
DDR SECAM PACK C.B.A. (NV-L25EG)
OSC PACK C.B.A.
VPS PACK C.B.A. (NV-L25EG)
MAIN C.B.A.
HEAD AMP C.B.A.
OPERATION C.B.A.
MIC JACK C.B.A.
TIMER C.B.A.
INPUT/OUTPUT PACK C.B.A. (NV-L25EG)
TV DEMODULATOR PACK C.B.A.
CYLINDER DRIVE PACK C.B.A.
POWER C.B.A.

SECTION 2
ADJUSTMENT PROCEDURES

2–1–1. DISASSEMBLY FLOW CHART

This flowchart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing
When reassembling, perform the steps in the reverse order.

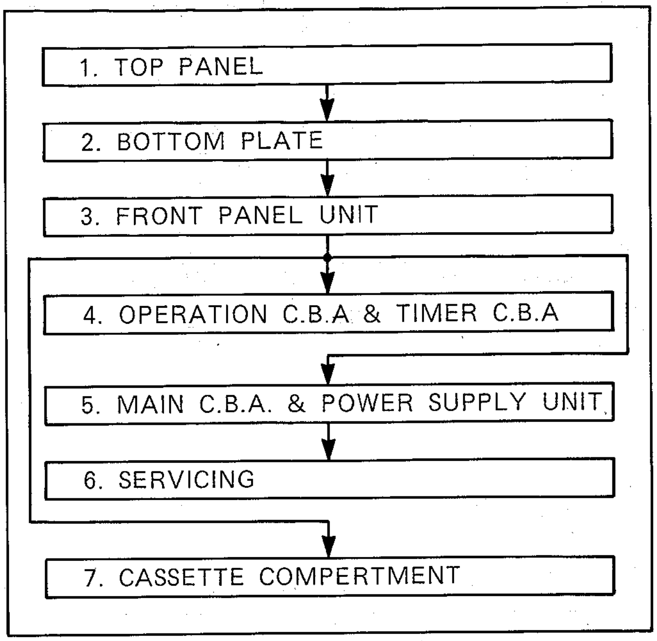


Fig. D1

2–1–2. DETAIL OF DISASSEMBLE METHOD

1. REMOVAL OF THE TOP PANEL

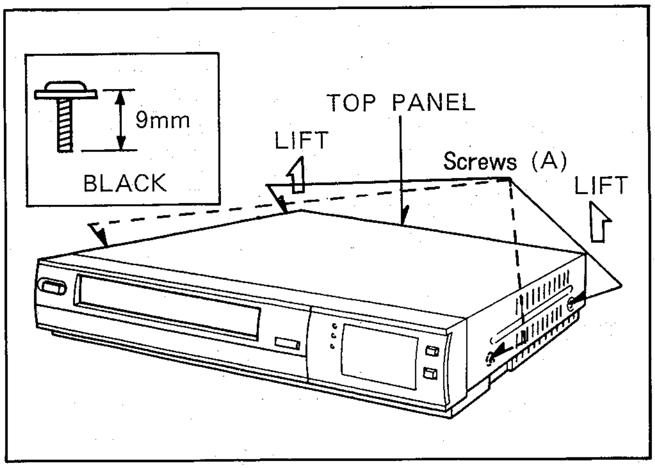


Fig. D2

Remove ... 4 Screws (A): NV–L25EG
Remove ... 2 Screws (A): NV–L25B

2. REMOVAL OF THE BOTTOM PLATE

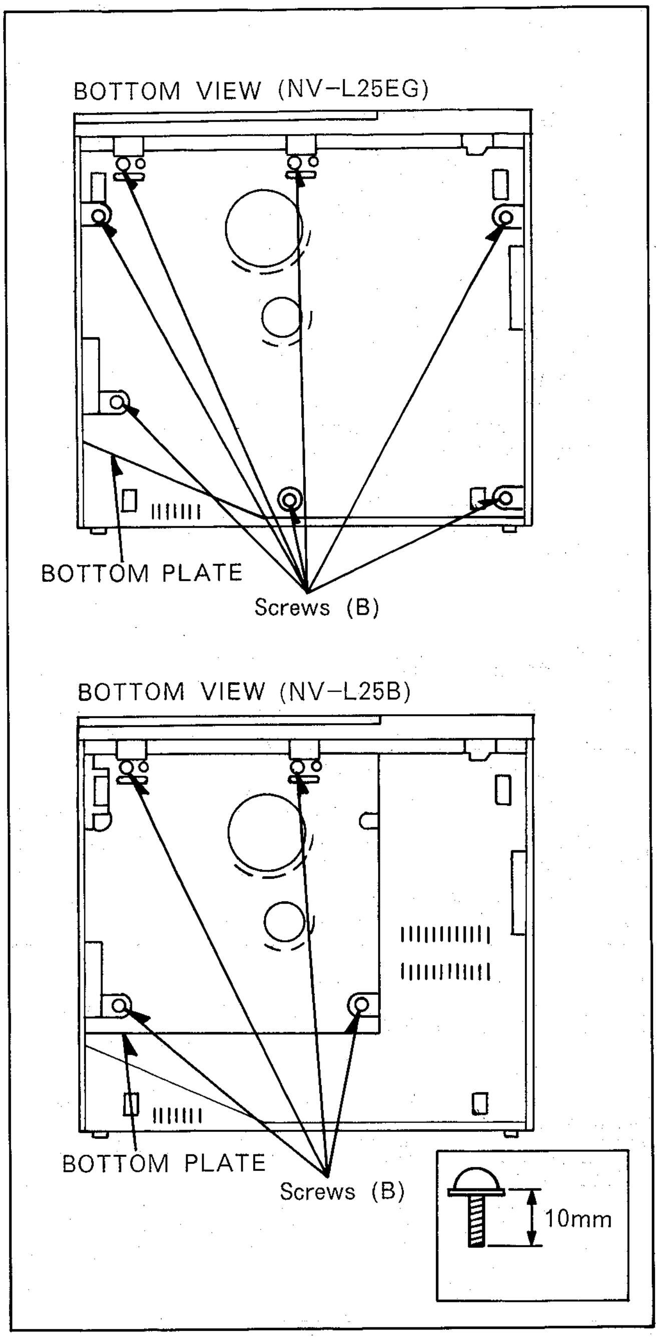


Fig. D3

Remove ... 7 Screws (B): NV–L25EG
Remove ... 4 Screws (B): NV–L25B

2-3. ELECTRICAL ADJUSTMENT PROCEDURES

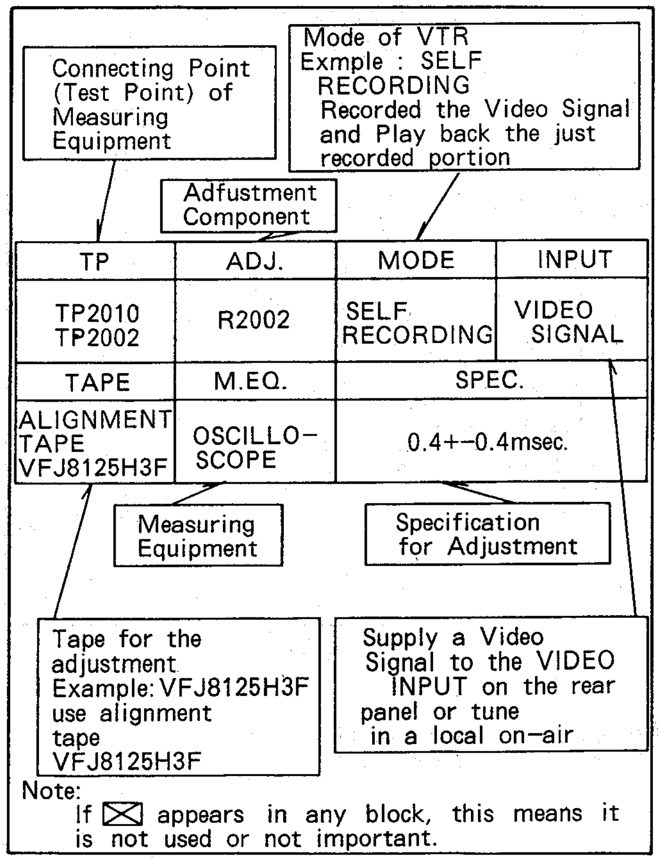
This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorders.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) and DVM (Digital Volt Meter)
   Voltage Range: 0.001~50V
2. Dual-Trace Oscilloscope
   Voltage range: 0.005~50V/div.
   Frequency Range: DC~30MHz
   Probes: 10:1
3. Frequency counter
   Frequency Range: 0~10MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0~500KHz
5. Video Sweep Generator
   Frequency Range: 0~10MHz
6. Colour Monitor TV
7. Plaastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)
9. Pattern Generator

2-3-2. HOW TO READ THE ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR
Exmple : SELF RECORDING
Recorded the Video Signal and Play back the just recorded portion
Adfustment Component
Measuring Equipment
Specification for Adjustment
Tape for the adjustment
Example: VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air

TP	ADJ.	MODE	INPUT
TP2010 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	0.4+-0.4msec.	

Note:
If ☒ appears in any block, this means it is not used or not important.

Fig. E1

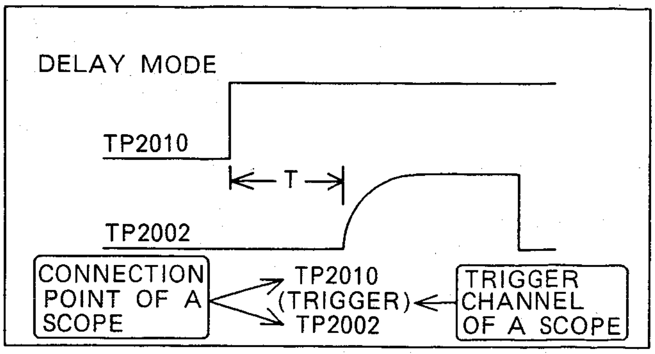


Fig. E2

NOTE : Before the electrical adjustment, set the VHS VTR as following conditions except for especial instructions in each adjustment item.

1. Picture Sharpness Control...Centre Fix Position.
2. RF Signal Level SW..........HIGH (NV-L25B)
3. TEST Signal SW..............OFF
4. EDIT/EDIT NOISE FILTER SW...OFF
5. Digital Tracking SW.........ON

SERVO Section

2-3-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY BACK	☒
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	6.5+-0.5H(NV-L25EG) 7.0+-0.5H(NV-L25B)	

1. Connect the Oscilloscope to TP2001 and TP3002.
2. Playback the VHS Alignment Tape (VFJ8125H3F)
3. Adjust VR2001 so that the phase difference becomes 7.0+-0.5(H)...(for B), 6.5+-0.5(H)...(for EG) as shown in Fig. E3.

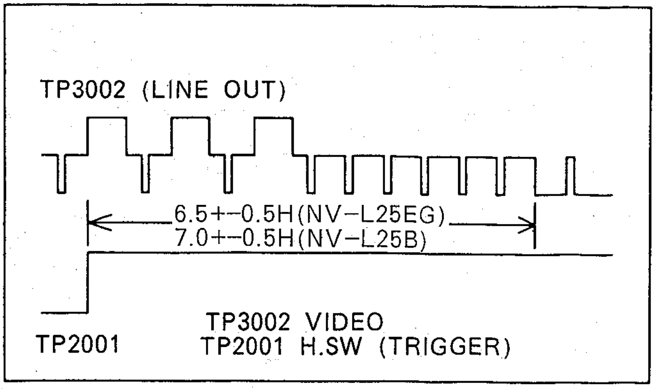


Fig. E3

2-3-4. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2010 (SP)	SP STILL	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	MONITOR	NO V-DANCING	

1. Record the Video Signal in SP Mode and playback the just recorded portion. Then place the unit in STILL Mode.
2. Adjust VR2010 so that the V-Dancing does not appear on the Monitor Screen.

2-3-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 TP2020	VR2011 (SP)	SLOW	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	20+-2 (msec) (SP)	

1. Connect the Oscillo scope to TP2002 and TP2026
2. Record the Colour Bar in SP Mode and playback the just recorded portion. Then place the Unit in the SLOW MODE by press SLOW BUTTON. And set the SLOW TRACKING to fix.
3. Adjust VR2011 so that the phase difference becomes 20+-2 (msec) as shown in Fig. E4.

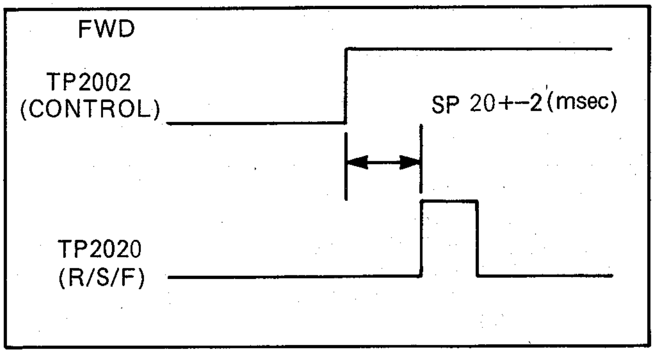


Fig.E4

LUMINANCE, CHROMINANCE & HEAD AMP Section

2-3-6. Y-NR BALANCE ADJUSTMENT (NV-L25EG)

TP	ADJ.	MODE	INPUT
C306-(+)	VR302	SELF RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	WAVE-FORM IS MINIMIZED	

1 .Connect the oscilloscope to (+) side of C306 on Sub Main C.B.A..

2 .Adjust VR302 so that the waveform is minimized as shown below.

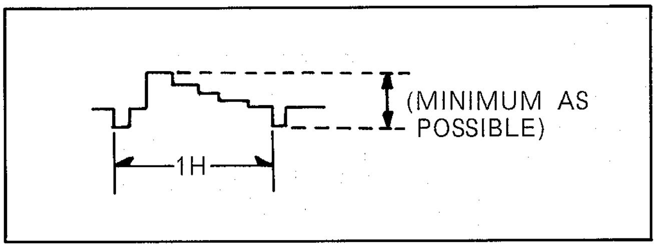


Fig.E5

2-3-7. Y-NR BALANCE ADJUSTMENT (NV-L25B)

TP	ADJ.	MODE	INPUT
IC302-21	VR302	RECORDING (LP MODE)	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	WAVE-FORM IS MINIMIZED	

1. Record the Colour Bar in LP Mode.
2. Connect the Oscilloscope to IC302-21.
3. Adjust VR302 so that waveform becomes minimum.

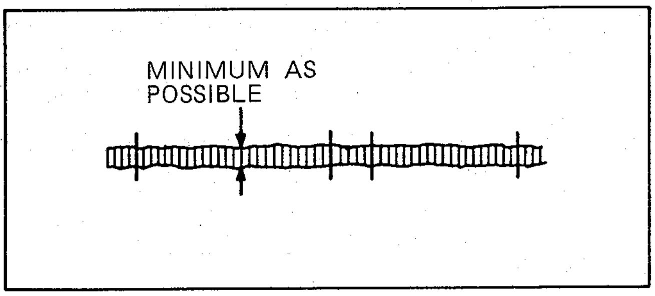


Fig.E6

2-3-8. Y-NR GAIN ADJUSTMENT (NV-L25B)

TP	ADJ.	MODE	INPUT
TP3002	VR301	SELF RECORDING AND PLAYBACK (LP MODE)	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	1.0+-0.05 (Vp-p) (75ohm Terminated)	

1. Record the Colour bar in LP Mode and Playback the just recorded portion.
2. Connect the oscilloscope to TP3002.
3. Adjust VR301 so that the Video Level becomes 1.0+-0.1 (Vp-p).

Achieve this adjustment, Video OUT terminal must be terminated with 75ohm.

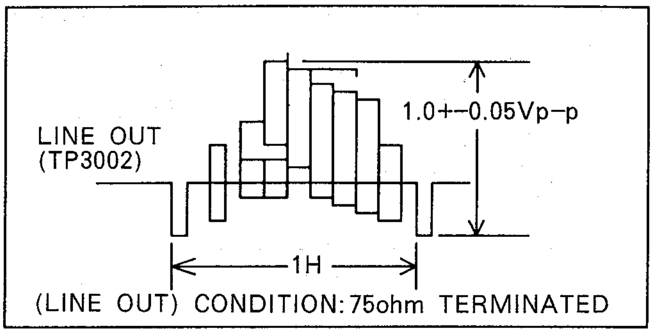


Fig.E7

2-3-9. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR501 (Y) VR502 (C)	RECORDING (SP MODE)	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	32+-2 (mVp-p) (C) 130+-5 (mVp-p) (Y)	

1. Record the Colour Bar in SP Mode.
2. Connect the Oscilloscope to TP507 (HOT) and TP508 (GND).
3. Turn VR501 so that luminance recording current signal becomes closed. (means minimum waveform)
4. Adjust VR502 so that the Chrominance recording current becomes 32+-2 (mVp-p) as shown in Fig. E8.
5. Next, adjust VR501 so that Luminance Recording current becomes 130+-5 (mVp-p) as shown in Fig. E9.

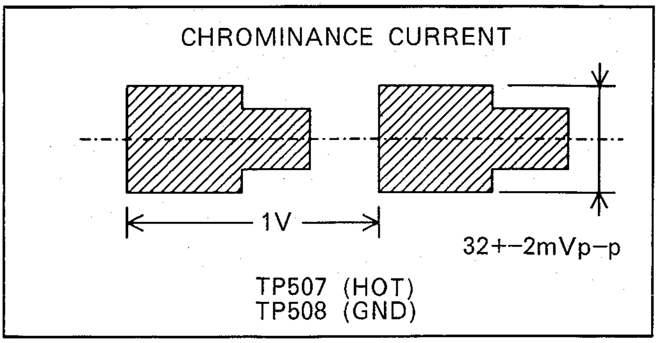


Fig.E8

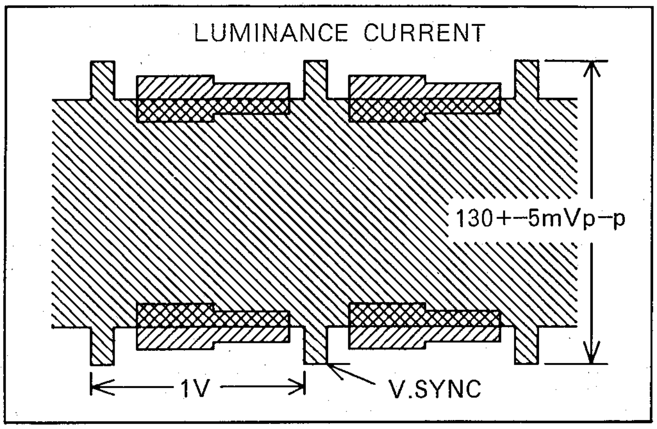


Fig.E9

2-3-10. CHROMA RECURSIVE ADJUSTMENT (NV-L25B)

TP	ADJ.	MODE	INPUT
IC302-8	VR801 VR802	SELF RECORDING AND PLAYPACK (SP MODE)	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	AMPLITUDE IS MINIMIZED	

1. Record the Colour Bar in SP Mode and playback the just recorded portion.
2. Connect the Oscilloscope to IC302-8.
3. Adjust VR801 and VR802 alternately so that the Chrominance Waveform Amplitude becomes minimum.

Befor this adjustment "Y-NR BALANCE ADJUSTMENT and "RECORDING CURRENT ADJUSTMENT"

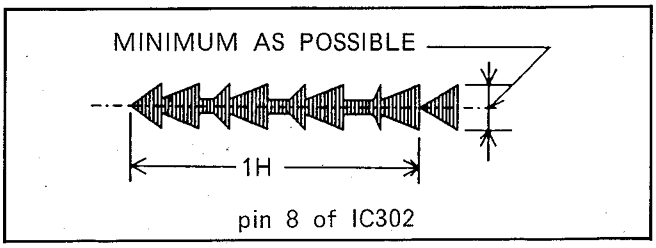


Fig.E10

2-3-11. CHROMINANCE PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR803	SELF RECORDING AND PLAYBACK	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.55+-0.05 (Vp-p) (75ohm terminated)	

1. Record the Colour Bar in SP Mode and playback the just recorded portion.
2. Connect the Oscilloscope to TP3002.
3. Adjust VR803 so that the CYAN Level becomes 0.55+-0.05 (Vp-p) as shown in Fig. E11.

Achieve this adjustment, the unit must be terminated with 75ohm.

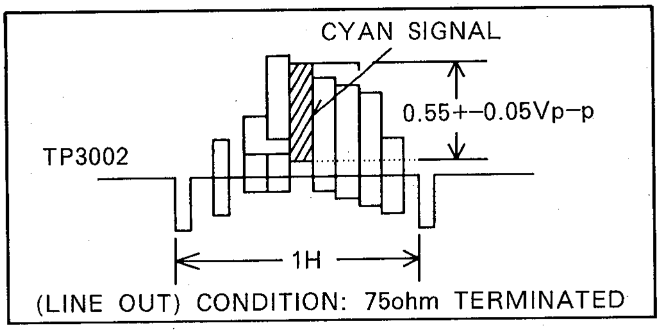


Fig.E11

2-3-12. SECAM KILLER ADJUSTMENT (NV-L25EG)

TP	ADJ.	MODE	INPUT
IC851-11	T851	RECORDING	SECAM COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	PORTION "A" IS PEAK TO NEGATIVE DIRECTION	

1. Record the SECAM Colour Bar.
2. Connect the Oscilloscope to IC851-11.
3. Adjust T851 so that portion "A" is peak to negative direction as shown in Fig. E12.

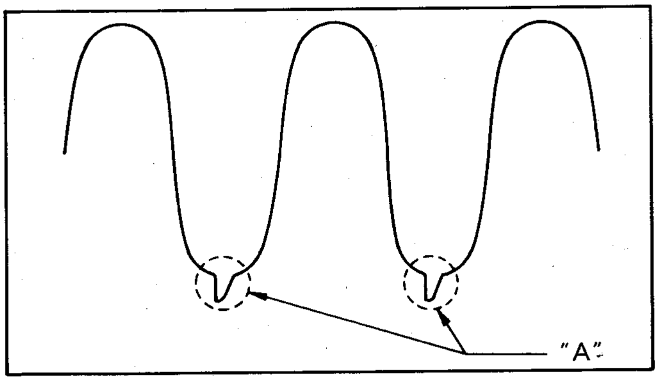
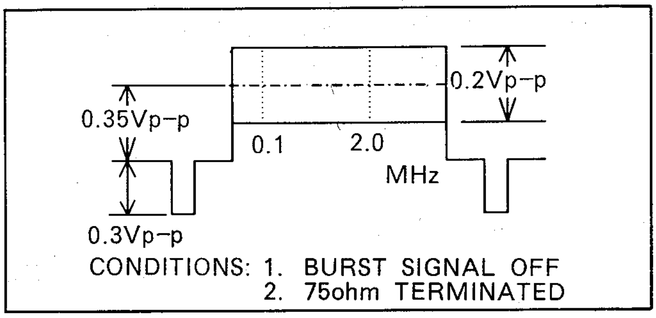


Fig.E12

2-3-13. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR3012 (SP) VR3013 (LP)	SELF RECORDING AND PLAYBACK	VIDEO SWEEP SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	B/A=0+-1 (dB) (90~110(%))	

1. Set the Video Sweep Generator output as shown in Fig. E13.



CONDITIONS: 1. BURST SIGNAL OFF
2. 75ohm TERMINATED

Fig.E13

2. Record the Video Sweep Signal in SP Mode and playback just recorded portion.
3. Set the Picture Sharpness Control to Fix position.
4. Set the EDIT SW to OFF position.
5. Adjust VR3012 so that the Frequency Response becomes B/A=0+-1dB as shown in Fig.
6. Record the Video Sweep Signal in LP Mode and playback just recorded portion.
7. Set the Picture Sharpness Control to Fix position.
8. Adjust VR3013 so that the Frequency Response becomes B/A=0+-1dB as shown in Fig. E14.

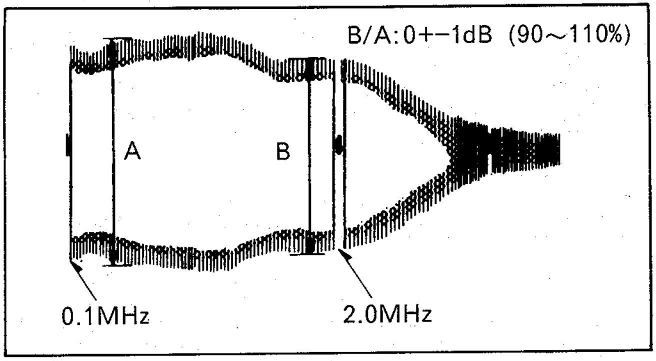


Fig.E14

AUDIO Section

2-3-14. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (+) TP4003 (-)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	2.7+-0.1 (mVrms)	

1. Connect the V.T.V.M. to TP4002 (+) and TP4003 (-). (Do not use long cable for Connection)
2. Make a short circuit at terminal of the Audio input.
3. Place the Unit in Recording Mode.
4. Adjust VR4002 so that reading of V.T.V.M. becomes 2.7+-0.1 (mVrms).

TIMER Section

2-3-15. TIMER REFERENCE CLOCK ADJUSTMENT

(NV-L25EG)

TP	ADJ.	MODE	INPUT
TP7501	C7501	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER DC POWER SUPPLY	7812.5+-0.015(us)	

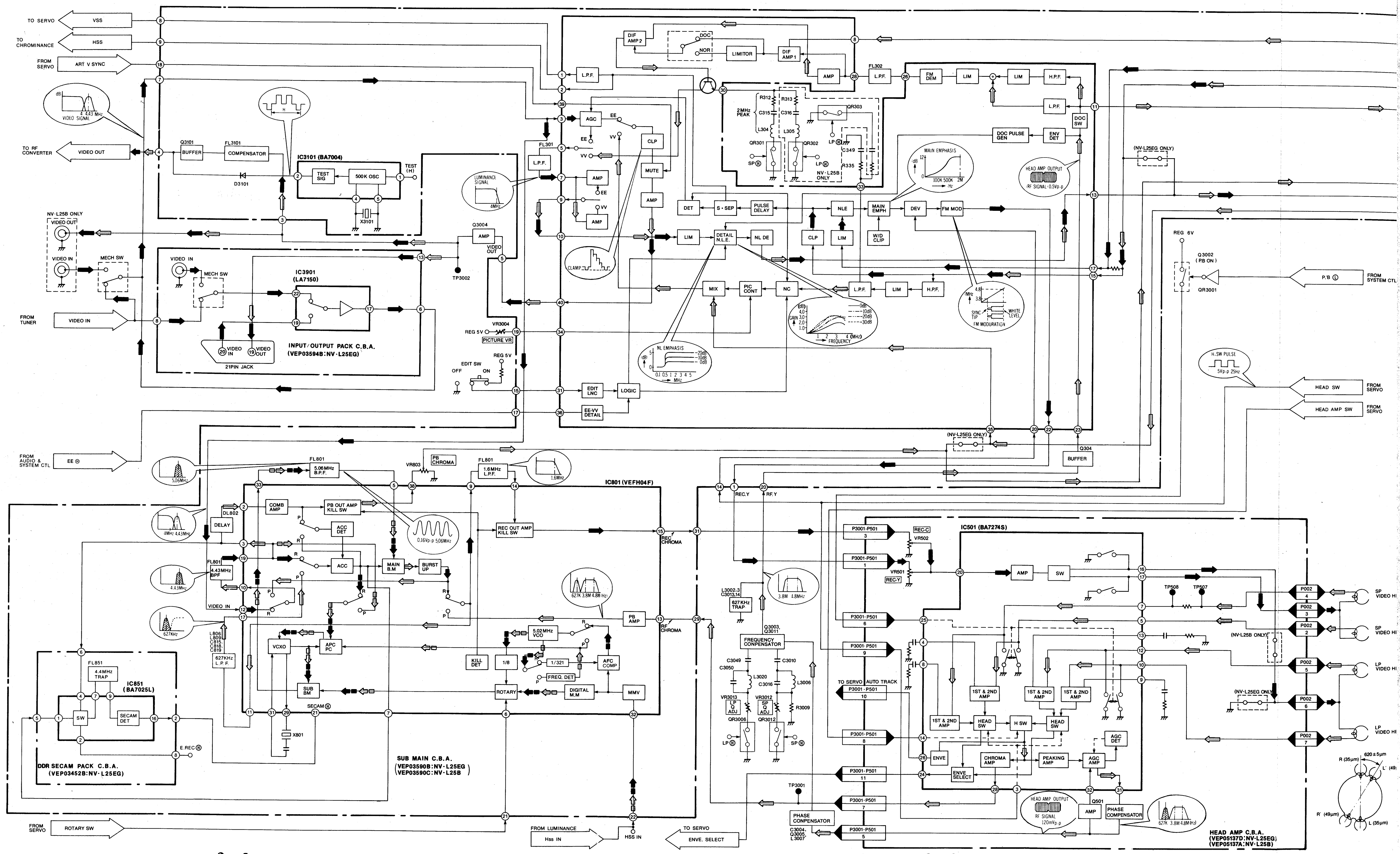
1. Set the voltage of DC power supply for DC5.0+-0.1(V) and supply it to P7501-11,10(+) and GND (-).
2. Connect the jumper wire between P7508-8 and GND.
3. Connect the Frequency Counter to TP7501.
4. Adjust C7501 so that TP7501 becomes 7812.5+-0.015(us).

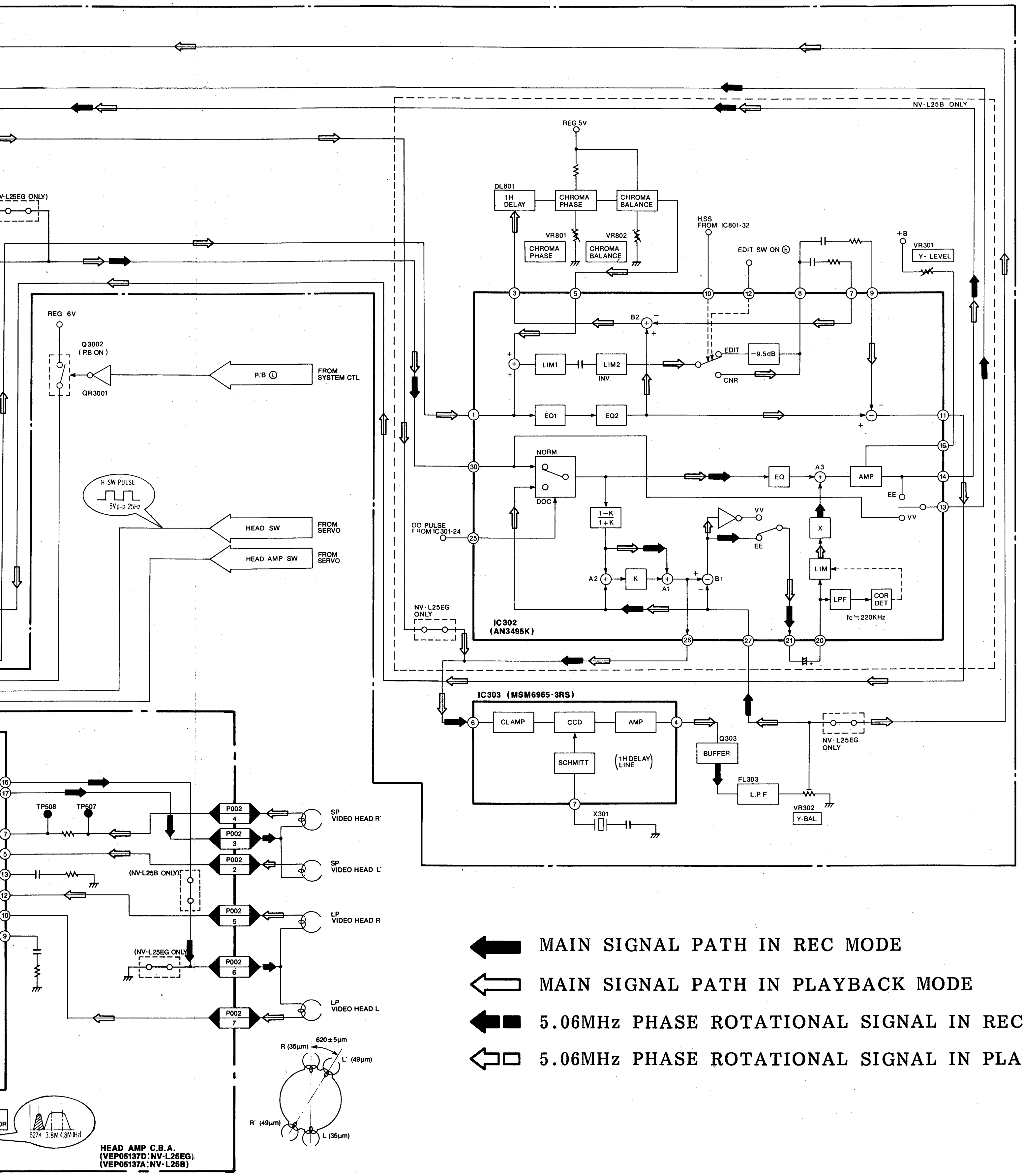
(NV-L25B)

TP	ADJ.	MODE	INPUT
TP7501	C7501	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER DC POWER SUPPLY	488.2812+-0.001(us)	

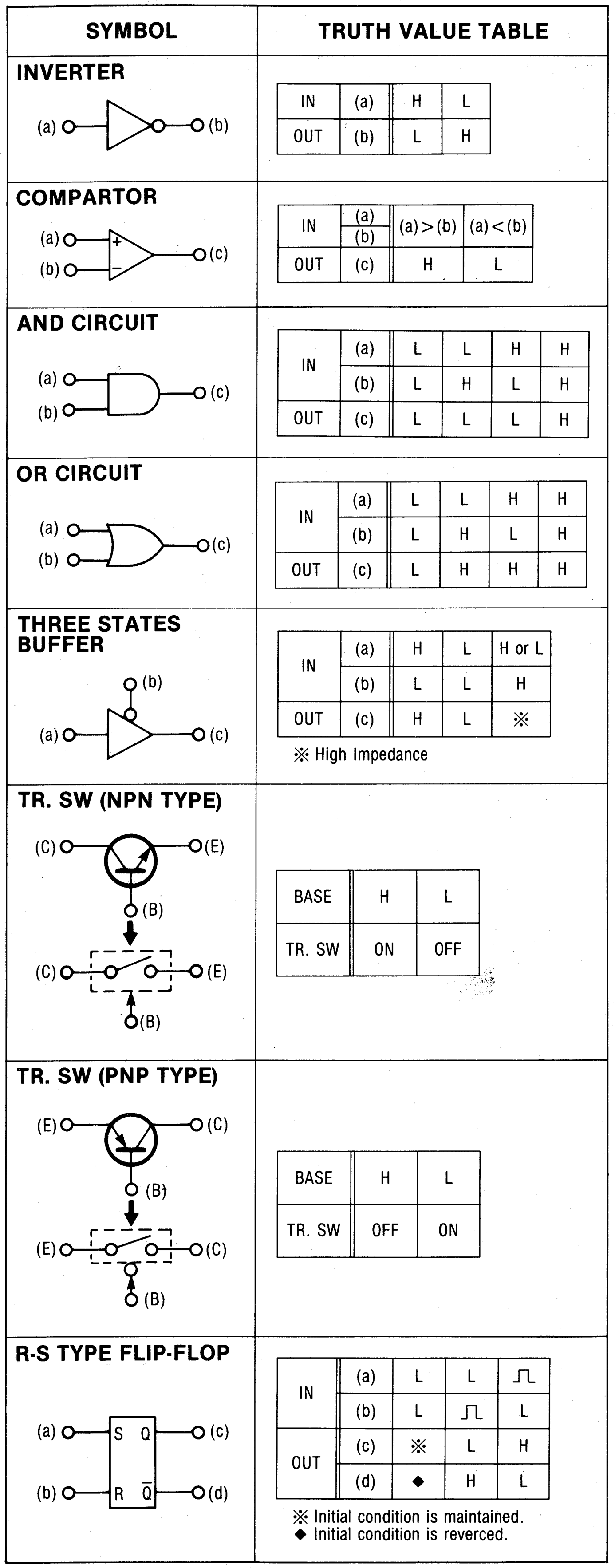
1. Set the voltage of DC power supply for DC5.0+-0.1(V) and supply it to P7501-11,10(+) and GND (-).
2. Connect the jumper wire between P7501-8 and GND.
3. Connect the diode(MA165) between IC7501-36(kathode) and IC7501-56(anode).
4. Connect the Frequency Counter to TP7501.
5. Adjust C7501 so that TP7501 becomes 488.2812+-0.001(us).

SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. LUMINANCE & CHROMINANCE BLOCK DIAGRAM





- ⬅ MAIN SIGNAL PATH IN REC MODE
- ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE
- ⬅■ 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
- ⇦□ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE


(a)
(b)
(c)
(C)
(E)
(B)
S
Q
R
Q̄
(d)

SYMBOL	TRUTH VALUE TABLE

INVERTER

IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR

IN	(a) (b)	(a)>(b)	(a)<(b)
OUT	(c)	H	L

AND CIRCUIT

IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT

IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

THREE STATES BUFFER

IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

※ High Impedance

TR. SW (NPN TYPE)

BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)

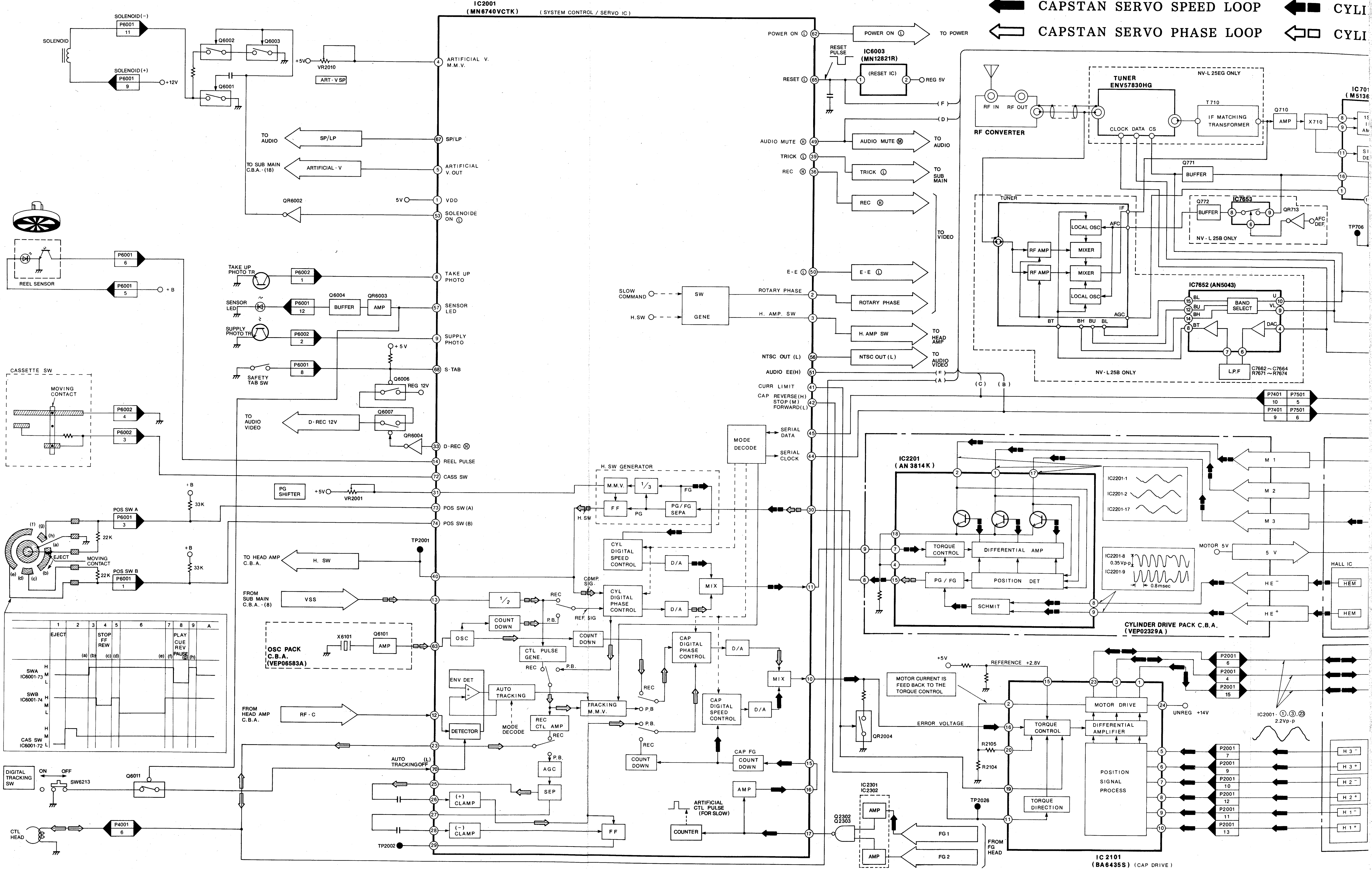
BASE	H	L
TR. SW	OFF	ON

R-S TYPE FLIP-FLOP

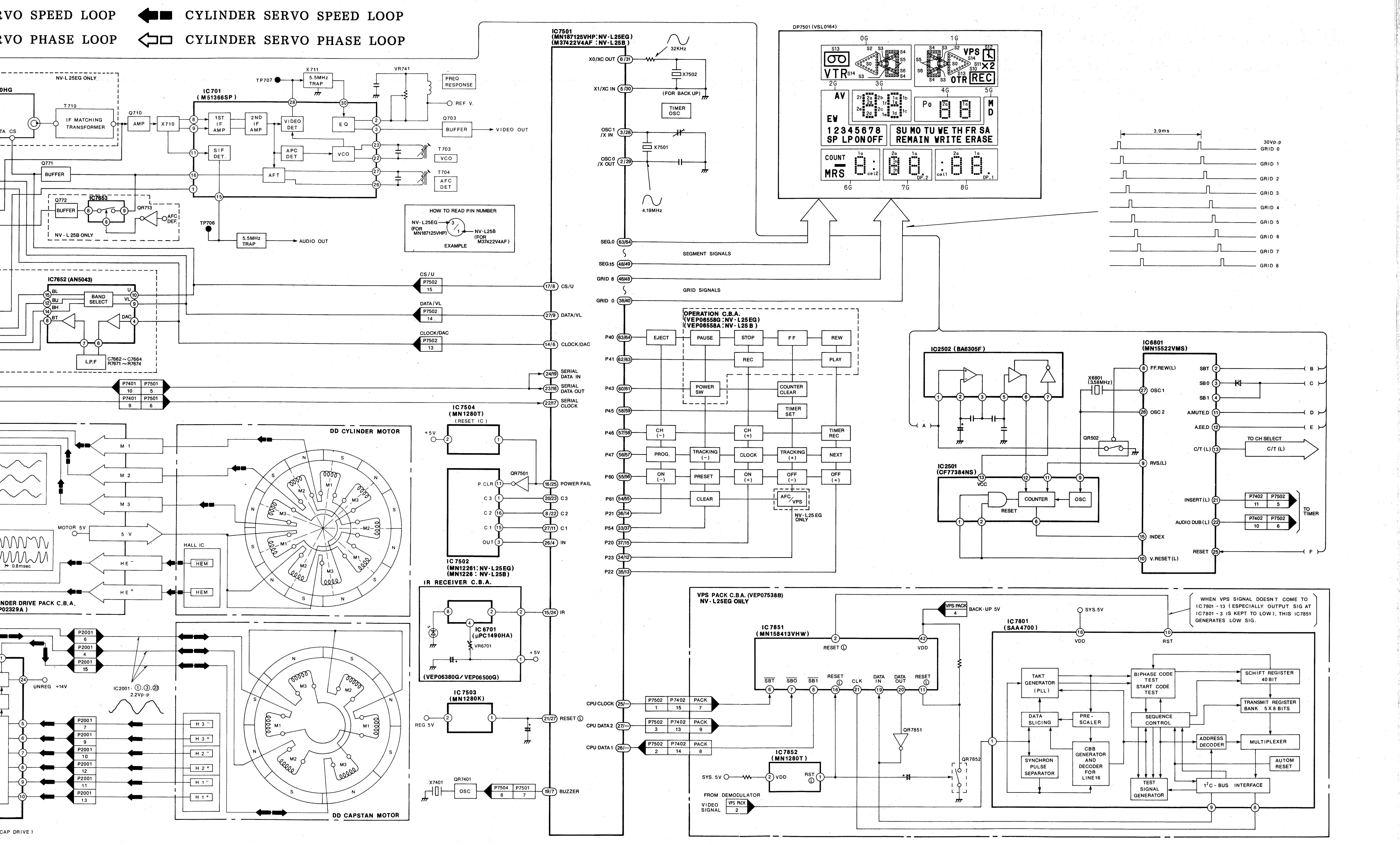
IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reverced.

3-2. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

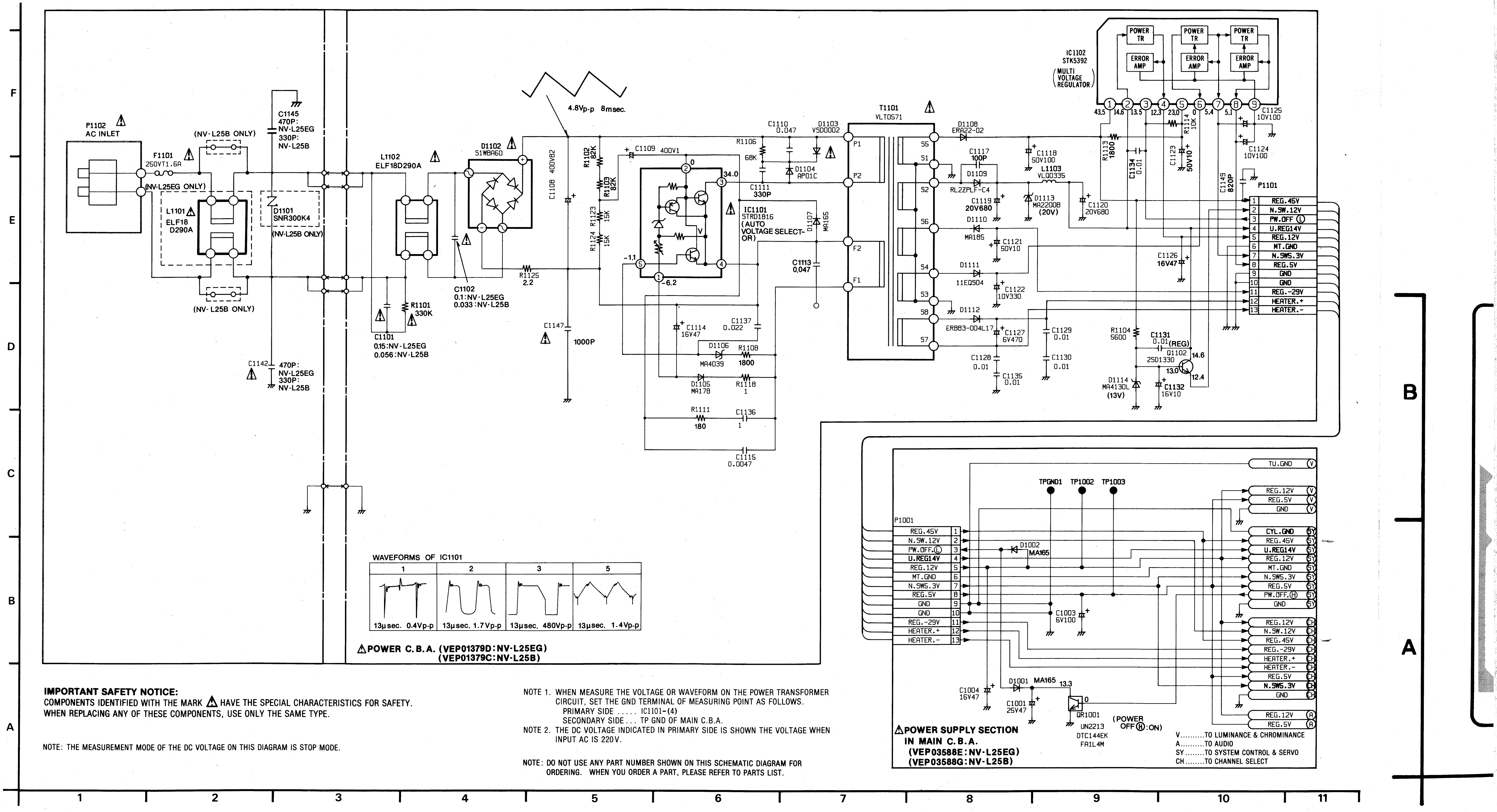


Back Page:
LUMINANCE & CHROMINANCE Section


VO SPEED LOOP
CYLINDER SERVO SPEED LOOP
VO PHASE LOOP
CYLINDER SERVO PHASE LOOP
NV-L25EG ONLY
T710
IF MATCHING TRANSFORMER
Q710
AMP
X710
IC701 (M51366SP)
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
SIF DET.
APC DET
VCO
AFT
X711 5.5MHz TRAP
TP707
VR741
FREQ RESPONSE
REF V.
Q703 BUFFER
VIDEO OUT
T703 VCO
T704 AFC DET
Q771 BUFFER
Q772 BUFFER
IC7653
QR713
AFC DEF.
NV-L25B ONLY
TP706
5.5MHz TRAP
AUDIO OUT
HOW TO READ PIN NUMBER
NV-L25EG (FOR MN187125VHP)
NV-L25B (FOR M37422V4AF)
EXAMPLE
IC7652 (AN5043)
BAND SELECT
L.P.F
C7662~C7664 R7671~R7674
CS/U P7502 15
DATA/VL P7502 14
CLOCK/DAC P7502 13
P7401 P7501
DD CYLINDER MOTOR
M1
M2
M3
MOTOR 5V
5V
HE⁻
HE⁺
HALL IC
HEM
0.8msec
NDER DRIVE PACK C.B.A. P02329A)
P2001
UNREG +14V
IC2001-①.③.㉓ 2.2Vp-p
H3⁻ H3⁺ H2⁻ H2⁺ H1⁻ H1⁺
DD CAPSTAN MOTOR
CAP DRIVE)
IC7504 (MN1280T) (RESET IC)
+5V
IC7502 (MN12261: NV-L25EG) (MN1226: NV-L25B)
QR7501
P.CLR C3 C2 C1 OUT
IR RECEIVER C.B.A.
IC6701 (μPC1490HA)
VR6701
(VEP06380G/VEP06500G)
IC7503 (MN1280K)
REG 5V
X7401
QR7401
OSC
P7504 P7501
IC7501 (MN187125VHP: NV-L25EG) (M37422V4AF: NV-L25B)
32KHz
X7502
(FOR BACK UP)
TIMER OSC
X7501
4.19MHz
X0/XC OUT
X1/XC IN
OSC1 /X IN
OSC0 /X OUT
SEG.0
SEG.15
SEGMENT SIGNALS
GRID 8
GRID 0
GRID SIGNALS
CS/U
DATA/VL
CLOCK/DAC
SERIAL DATA IN
SERIAL DATA OUT
SERIAL CLOCK
POWER FAIL
C3 C2 C1 IN
IR
RESET ①
BUZZER
CPU CLOCK
CPU DATA 2
CPU DATA 1
P40 P41 P43 P45 P46 P47 P60 P61 P21 P54 P20 P23 P22
OPERATION C.B.A. (VEP06558G: NV-L25EG) (VEP06558A: NV-L25B)
EJECT PAUSE STOP FF REW
REC PLAY
POWER SW
COUNTER CLEAR
TIMER SET
CH (-) CH (+) TIMER REC
PROG. TRACKING (-) CLOCK TRACKING (+) NEXT
ON (-) PRESET ON (+) OFF (-) OFF (+)
CLEAR
AFC/VPS
NV-L25EG ONLY
P7502 P7402 PACK
DP7501 (VSL0164)
VTR VPS OTR REC ×2
AV EW
12345678 SP LP ON OFF
SU MO TU WE TH FR SA
REMAIN WRITE ERASE
COUNT MRS
0G 1G 2G 3G 4G 5G 6G 7G 8G
3.9ms
30Vp-p
GRID 0 GRID 1 GRID 2 GRID 3 GRID 4 GRID 5 GRID 6 GRID 7 GRID 8
IC2502 (BA6305F)
X6801 (3.58MHz)
IC6801 (MN15522VMS)
FF.REW(L) OSC1 OSC2 RVS.(L) INDEX V.RESET(L)
SBT SB0 SB1 A.MUTE.D A.EE.D C/T(L) INSERT(L) AUDIO DUB(L) RESET
TO CH SELECT
C/T (L)
QR502
IC2501 (CF77384NS)
VCC
RESET COUNTER OSC
P7402 P7502
TO TIMER
A B C D E F
VPS PACK C.B.A. (VEP07538B) NV-L25EG ONLY
VPS PACK
BACK-UP 5V
SYS.5V
WHEN VPS SIGNAL DOESNT COME TO IC7801-13 (ESPECIALLY OUTPUT SIG AT IC7801-3 IS KEPT TO LOW), THIS IC7851 GENERATES LOW SIG.
IC7851 (MN158413VHW)
RESET ① VDD
SBT SBO SB1 RESET ① CLK DATA IN DATA OUT RESET ①
QR7851
IC7852 (MN1280T)
SYS. 5V VDD RST ①
QR7852
FROM DEMODULATOR
VIDEO SIGNAL
IC7801 (SAA4700)
VDD RST
TAKT GENERATOR (PLL)
DATA SLICING
PRE-SCALER
SYNCHRON PULSE SEPARATOR
CBB GENERATOR AND DECODER FOR LINE16
BIPHASE CODE TEST START CODE TEST
SEQUENCE CONTROL
TEST SIGNAL GENERATOR
SCHIFT REGISTER 40BIT
TRANSMIT REGISTER BANK 5X8 BITS
ADDRESS DECODER
MULTIPLEXER
AUTOM RESET
I²C-BUS INTERFACE

3-3. POWER SCHEMATIC DIAGRAM

3-4. POW



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

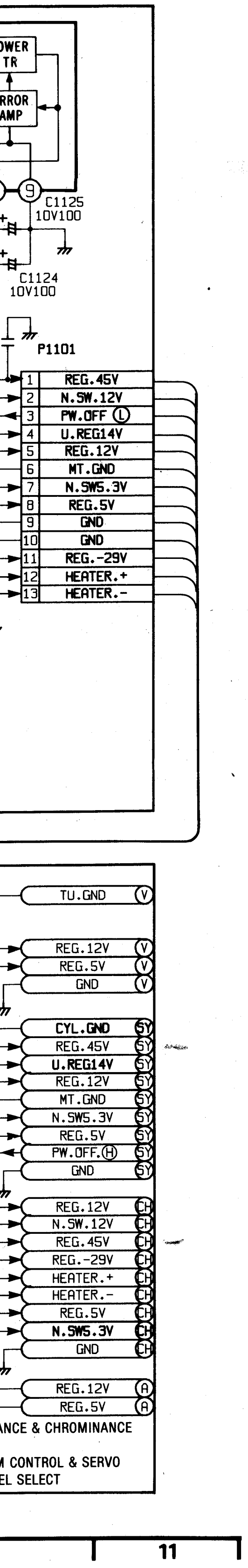
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... IC1101-(4)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

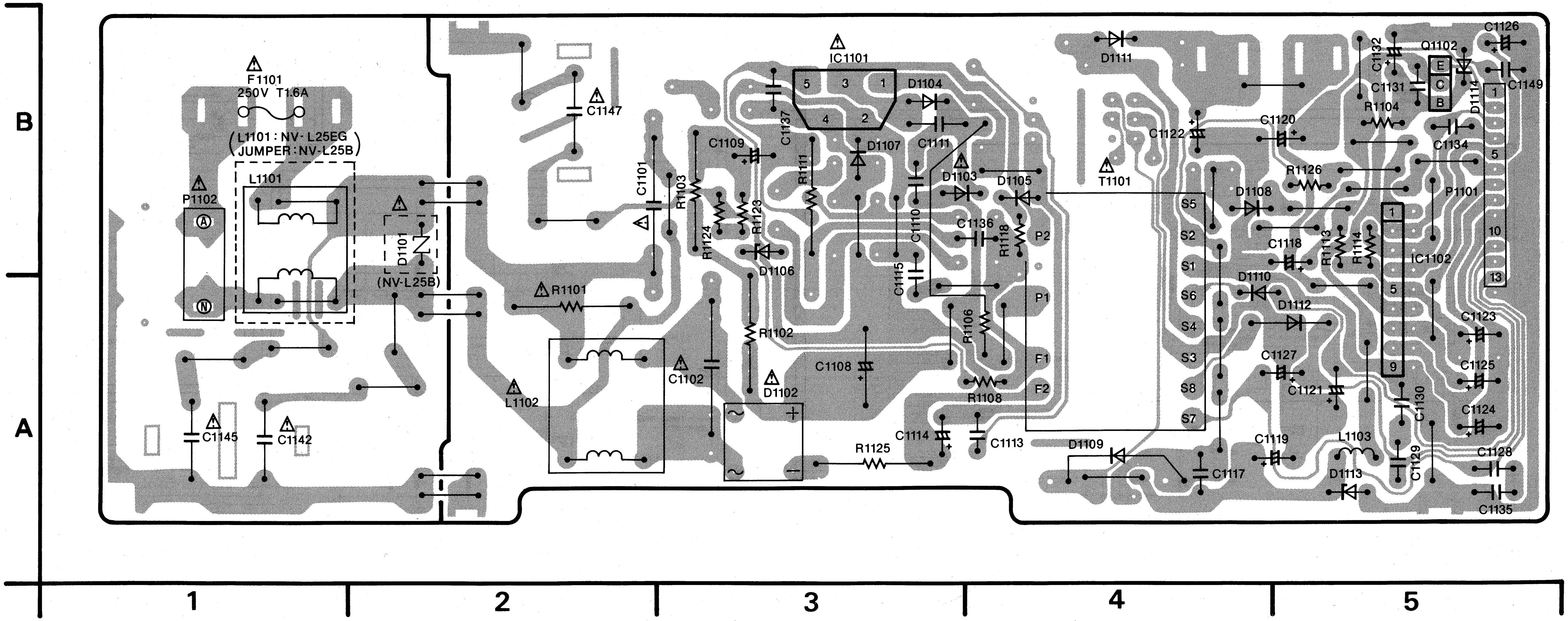
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-4. POWER C.B.A. (VEP01379D: NV-L25EG) (VEP01379C: NV-L25B)

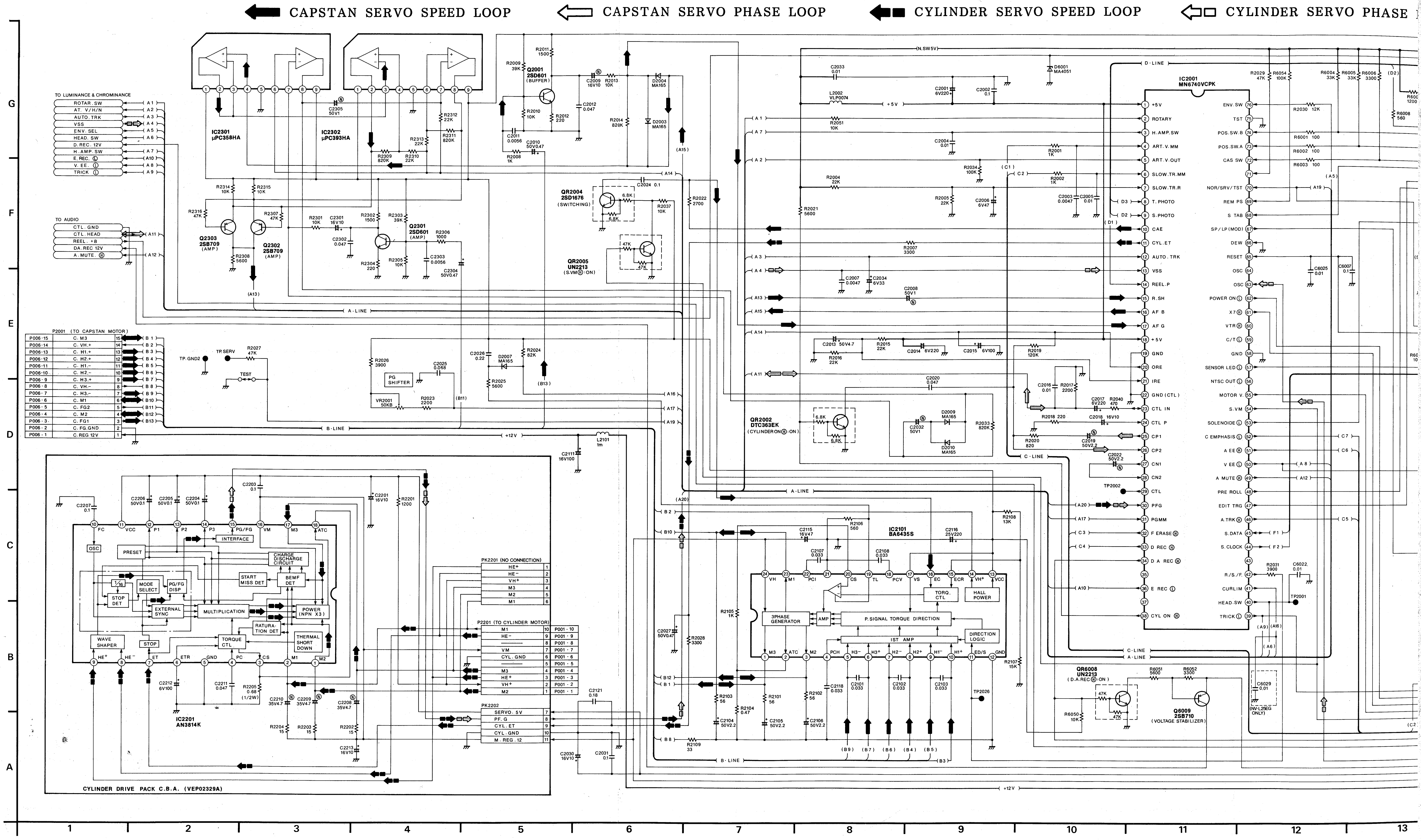


POWER C.B.A.	
Transistor	
Q1102	B-5
Q1103	B-3
Integrated Circuit	
IC1101	B-3
IC1102	B-5
Connector	
P1101	B-5
P1102	B-1

ADDRESS INFORMATION

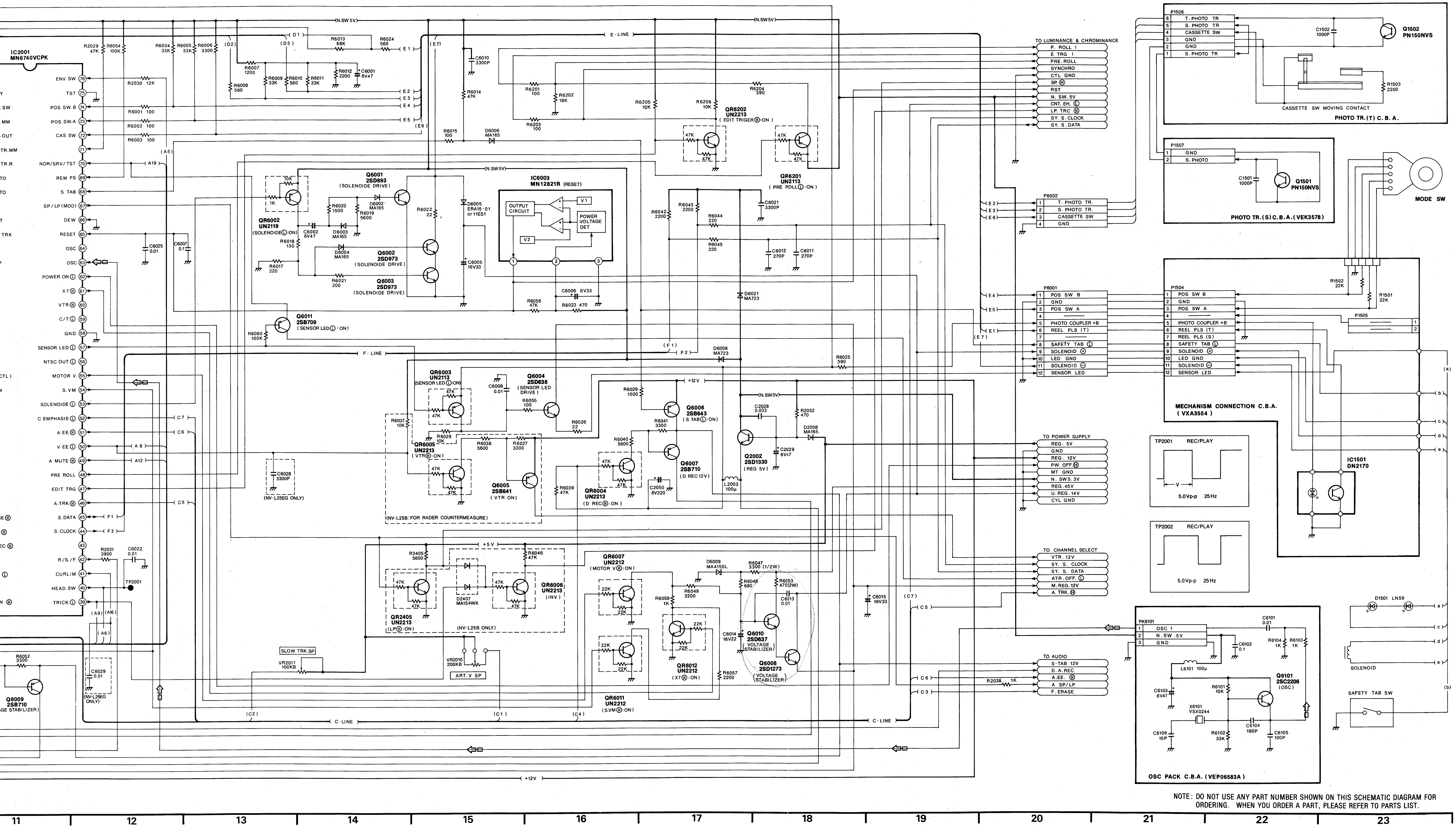


3-5. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM



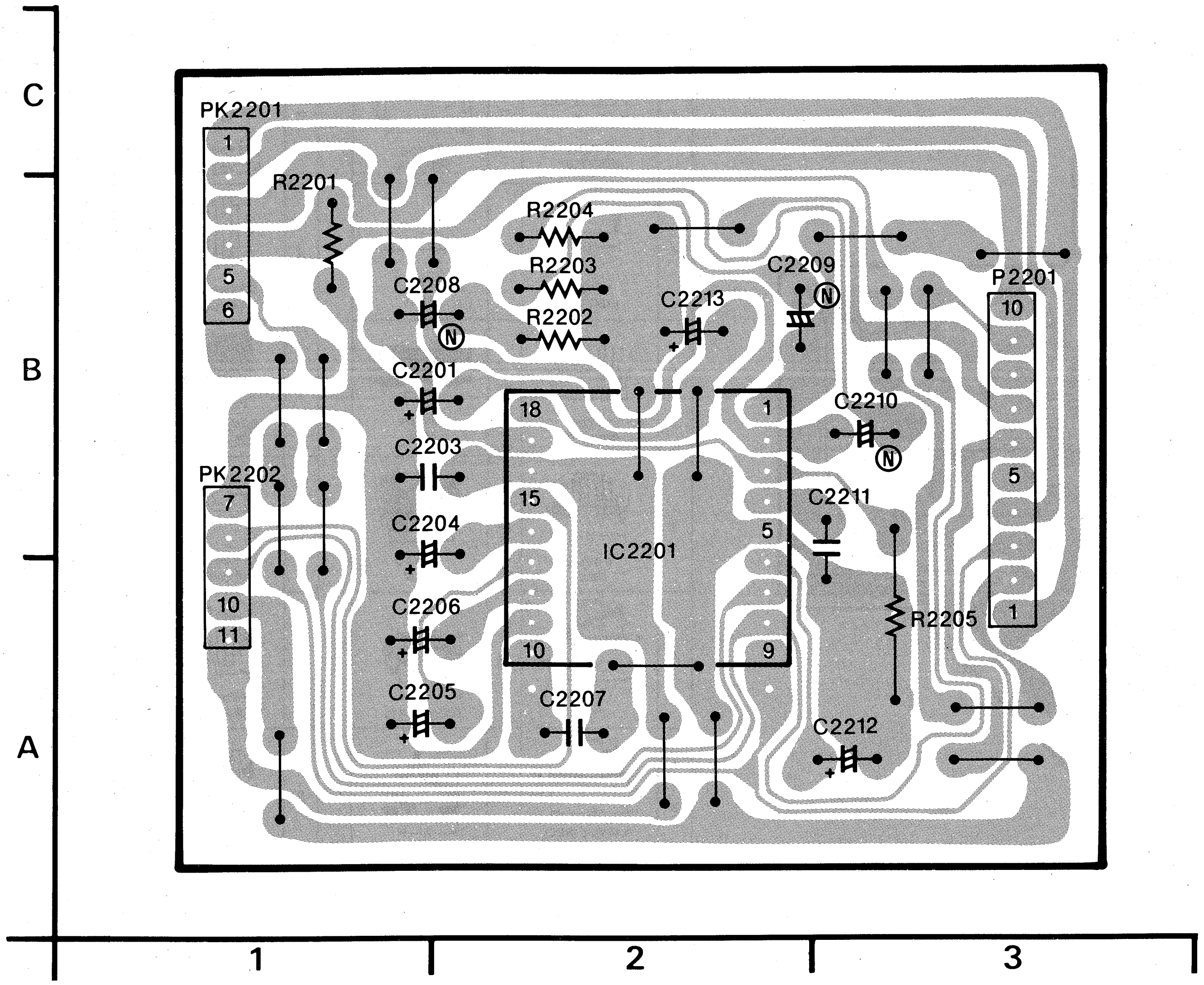
Back Page:
POWER Section

⇦▭ CYLINDER SERVO PHASE LOOP

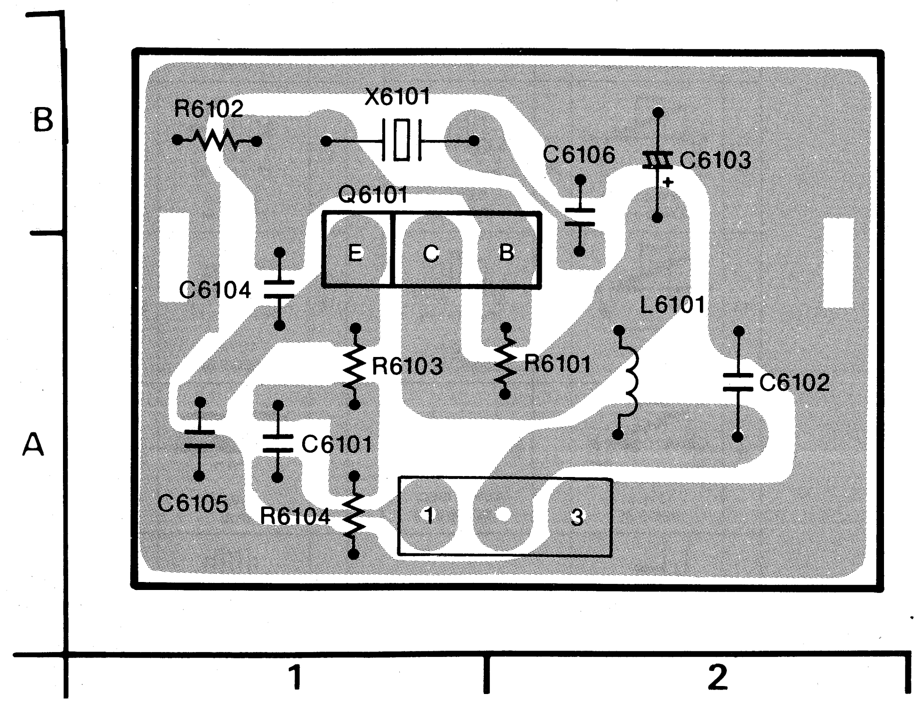


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-6. CYLINDER DRIVE PACK C.B.A. (VEP02329A)



3-7. OSC PACK C.B.A. (VEP06583A)



CYLINDER DRIVE PACK C.B.A.	
Integrated Circuit	
IC2201	B-2
Connector	
P2201 PK2201 PK2202	B-3 C-1 A-1

ADDRESS INFORMATION

OSC PACK C.B.A.	
Transistor	
Q6101	B-1

ADDRESS INFORMATION

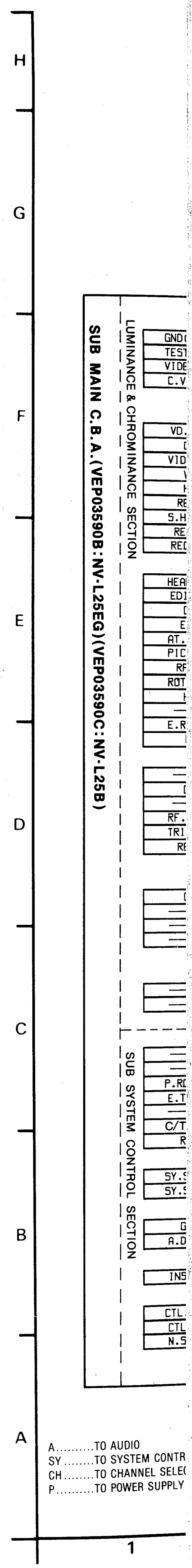
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	5.0	5.0	0	0	0	0	2.5	3.3	3.2	4.2	4.2	1.7	2.4	0.3	2.5	2.5	2.5	5.0	0	2.5
PLAY	5.0	2.7	0	0	0	0	2.5	3.2	3.2	2.5	2.5	2.1	2.4	5.2	2.4	2.4	2.5	5.0	0	2.5
F.F.	5.0	5.0	0	0	0	0	2.5	3.3	3.2	2.5	4.2	1.7	2.4	2.7	2.5	2.5	2.5	5.0	0	2.5
REF. NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.5	0	2.5	2.5	1.1	2.8	3.9	2.1	0	5.1	0.1	0	0	0	0	0.2	0	0	5.0	0
PLAY	2.5	0	2.4	2.4	1.1	2.3	3.8	3.0	3.5	1.1	3.1	0	0	0	5.0	0.2	0	4.9	5.0	3.0
F.F.	2.5	0	2.5	2.4	1.4	1.5	3.6	3.3	2.9	5.1	0.1	0	0	0	0	0.2	0	0	5.0	0
REF. NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.9	2.0	0	4.7	4.5	0	0	5.0	0	0	5.0	0	5.0	0	0	5.0	4.6	0	0	0
PLAY	4.9	0	0	4.6	4.6	0	0	5.0	0	5.0	0	5.0	5.0	0	4.9	5.0	4.6	0	0	0
F.F.	4.9	0	0	4.7	4.7	0	0	5.0	0	0	5.0	0	5.0	0	0	5.0	4.6	0	0	0
REF. NO.	IC2001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76				
STOP	5.0	0	0	2.5	5.0	0	0	0.5	5.0	4.7	5.0	2.1	5.0	2.0	0	0.1				
PLAY	5.0	0	2.5	2.5	5.0	0	0	0.5	5.0	4.7	5.0	2.1	0	5.0	0	4.5				
F.F.	5.0	0	2.5	—	5.0	0	0	0.5	5.0	4.6	5.0	2.1	5.0	2.0	0	0.1				
REF. NO.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	7.2	0	7.2	1.3	2.1	2.2	2.1	2.2	2.2	2.1	2.0	0	5.1	3.8	2.8	0.1	5.1	0	0.4	0
PLAY	2.1	0	2.0	1.3	2.2	2.2	2.1	2.1	2.2	2.2	0	0	5.1	3.8	2.8	2.5	5.1	0.6	0.4	0
F.F.	3.2	0	3.2	1.3	2.2	2.2	2.2	2.2	2.2	2.2	0	0	5.1	3.9	2.8	2.5	5.1	0.5	0.4	0
REF. NO.	IC2101																			
MODE	21	22	23	24																
STOP	0	0.5	7.2	14.3																
PLAY	0	0.6	2.0	10.3																
F.F.	0	0.6	3.0	14.2																
REF. NO.	IC2201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	13.8	13.8	0	0	0	2.6	4.2	0.5	0.4	1.3	5.2	4.3	4.3	4.0	5.1	13.8	13.8	0		
PLAY	9.8	9.8	0	0.5	0	2.6	2.5	0.5	0.5	2.8	5.1	3.7	3.8	3.8	1.0	9.9	9.8	0		
F.F.	13.6	13.6	0	0	0	2.6	4.2	0.5	0.4	1.2	5.2	4.3	4.3	4.0	5.1	13.6	13.6	0		
REF. NO.	IC2301										IC2302									
MODE	1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9	
STOP	5.1	2.5	2.5	2.5	0	2.5	2.5	2.4	5.1		5.1	0.3	2.5	2.4	0	2.4	2.5	0.3	5.1	
PLAY	5.1	2.4	2.5	2.5	0	2.5	2.4	2.4	5.1		5.1	1.7	2.4	2.4	0	2.4	2.4	1.7	5.1	
F.F.	5.1	2.5	2.5	2.5	0	2.5	2.5	2.4	5.1		5.1	1.6	2.5	2.4	0	2.4	2.5	1.6	5.1	
REF. NO.	IC6003																			
MODE	1	2	3																	
STOP	5.0	5.1	0																	
PLAY	5.0	5.0	0																	
F.F.	5.0	5.1	0																	

SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q2001			Q2002			Q2301			Q2302			Q2303			Q6001		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.4	2.5	1.0	5.1	5.4	0	0.4	2.5	1.0	0.4	0	0.4	0.4	0	0.4	0	14.6	0.1
PLAY	0.4	2.4	1.0	5.1	5.4	5.8	0.4	2.4	1.0	1.7	0.9	1.9	1.7	0.9	1.9	0	14.4	0.1
F.F.	0.4	2.5	1.0	5.1	5.4	5.8	0.4	2.5	1.0	1.6	1.0	1.6	1.6	1.0	1.8	0	14.4	0.1
REF. NO.	Q6002			Q6003			Q6004			Q6005			Q6006			Q6007		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	14.6	0.1	0	0.2	0	0.6	14.3	0.5	12.3	0	12.2	12.3	12.3	11.5	12.3	−0.2	12.3
PLAY	0.1	14.4	0.1	0	0.2	0	0.5	10.4	0.3	12.3	0	12.2	12.3	12.2	11.5	12.2	−0.2	12.2
F.F.	0.1	14.5	0.2	0	0	0	0.6	14.1	0.3	12.3	0	12.2	12.3	12.3	11.5	12.3	−0.2	12.3
REF. NO.	Q6008			Q6009			Q6010			Q6011								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	14.2	14.6	14.7	12.3	0.2	12.3	14.7	43.7	15.2	4.7	0	4.6						
PLAY	10.4	14.4	11.0	12.2	0.2	12.2	11.0	43.8	11.5	4.7	0	4.6						
F.F.	14.1	14.4	14.7	12.3	0	12.3	14.7	43.7	15.2	4.7	0	4.6						
REF. NO.	QR2002			QR2004			QR2005			QR2405			QR6002			QR6003		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0	0	0	2.6	0	2.6	0	0	4.5	0	5.1	0	5.0	5.1	0.6	4.6
PLAY	0	0	4.9	0	0	2.6	0	2.6	0	0	4.4	0	5.1	0	5.0	5.1	0.3	4.7
F.F.	0	1.1	0	0	0	2.6	0	2.6	0	0	4.5	0	5.1	0	5.0	5.1	0.3	4.6
REF. NO.	QR6004			QR6005			QR6006			QR6007			QR6008			QR6011		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	12.3	0	0	12.2	0	0	0	4.5	0	15.2	0	0	12.3	0	0	15.2	0
PLAY	0	12.2	0	0	12.2	0	0	0	4.5	0	0.1	4.9	0	12.2	0	0	11.5	0
F.F.	0	12.3	0	0	12.2	0	0	0	4.5	0	15.2	0	0	12.3	0	0	15.2	0
REF. NO.	QR6012			QR6201			QR6202											
MODE	E	C	B	E	C	B	E	C	B									
STOP	0	0	0	5.1	0	5.0	0	5.0	0									
PLAY	0	0	0	5.1	0	5.0	0	5.0	0									
F.F.	0	0	0	5.1	0	5.0	0	5.0	0									

3-8. LUM


H
G
F
E
D
C
B
A
1
SUB MAIN C.B.A.(VEP03590B:NV-L25EG)(VEP03590C:NV-L25B)
LUMINANCE & CHROMINANCE SECTION
SUB SYSTEM CONTROL SECTION
A..........TO AUDIO
SY.........TO SYSTEM CONTR
CH........TO CHANNEL SELE
P..........TO POWER SUPPLY

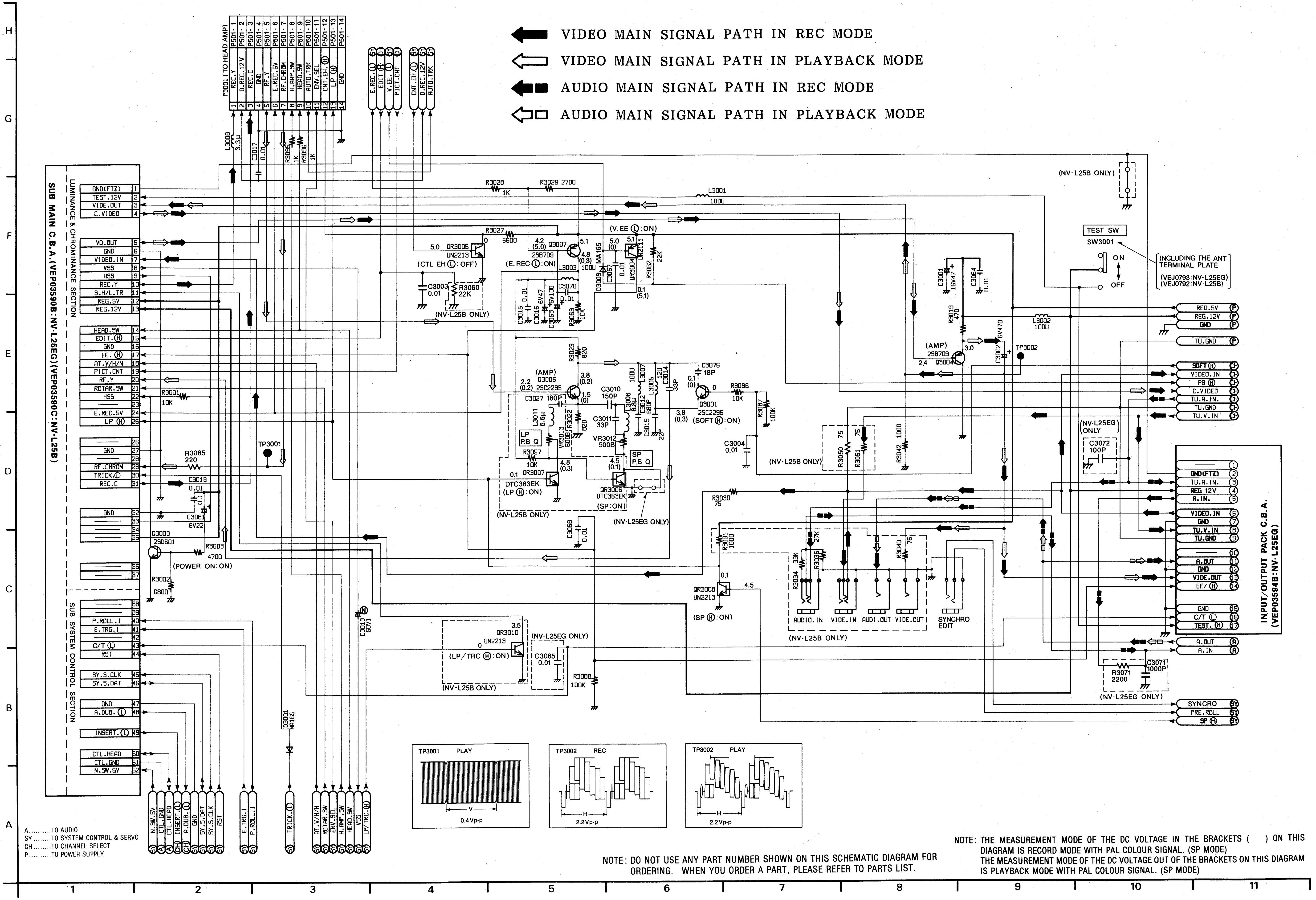
DE)

7	18	19	20
5	5.0	0	2.5
5	5.0	0	2.5
5	5.0	0	2.5
7	38	39	40
	0	5.0	0
	4.9	5.0	3.0
	0	5.0	0
7	58	59	60
6	0	0	0
6	0	0	0
6	0	0	0
7	18	19	20
1	0	0.4	0
1	0.6	0.4	0
1	0.5	0.4	0
7	18		
8	0		
3	0		
6	0		
	8	9	
5	0.3	5.1	
4	1.7	5.1	
5	1.6	5.1	

E)

01	
	B
6	0.1
4	0.1
4	0.1
07	
	B
.2	12.3
.2	12.2
.2	12.3
003	
	B
6	4.6
3	4.7
3	4.6
011	
	B
2	0
5	0
2	0

3-8. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

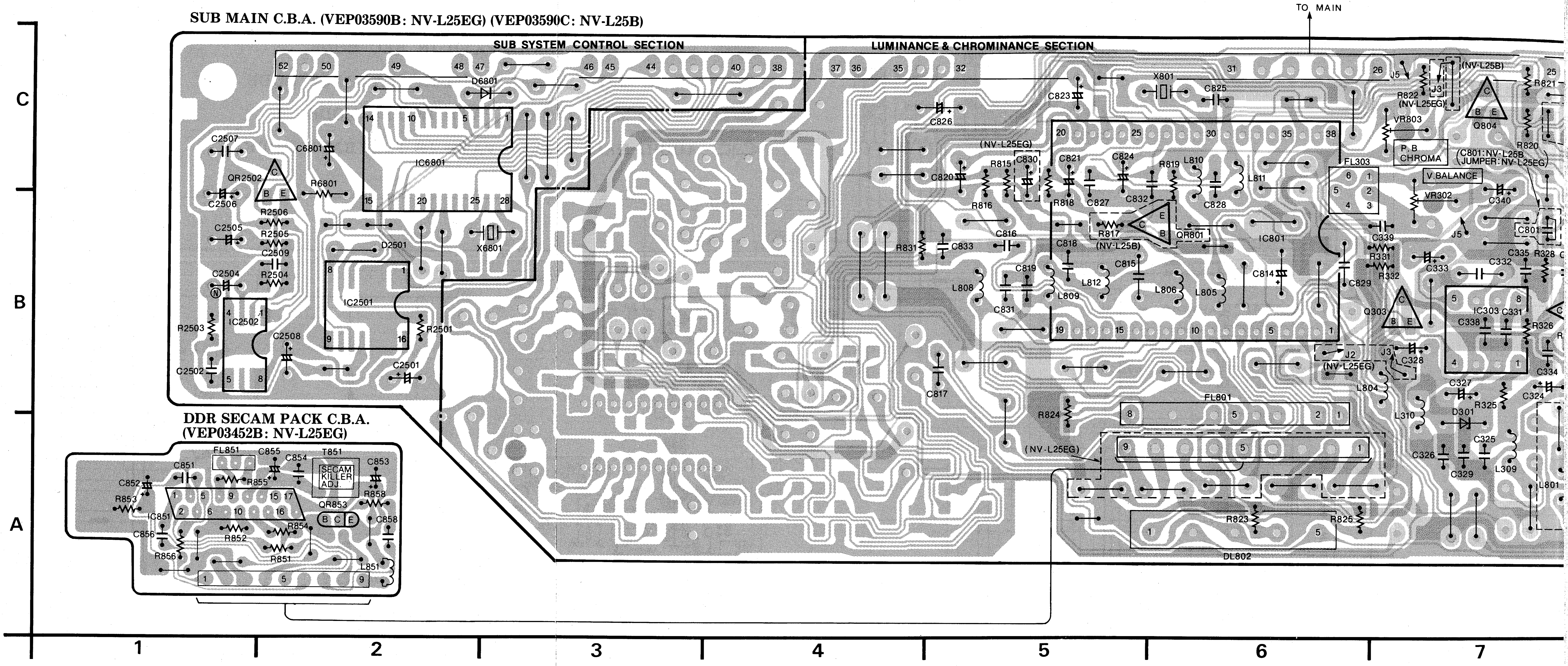


A..........TO AUDIO
SY........TO SYSTEM CONTROL & SERVO
CH........TO CHANNEL SELECT
P..........TO POWER SUPPLY

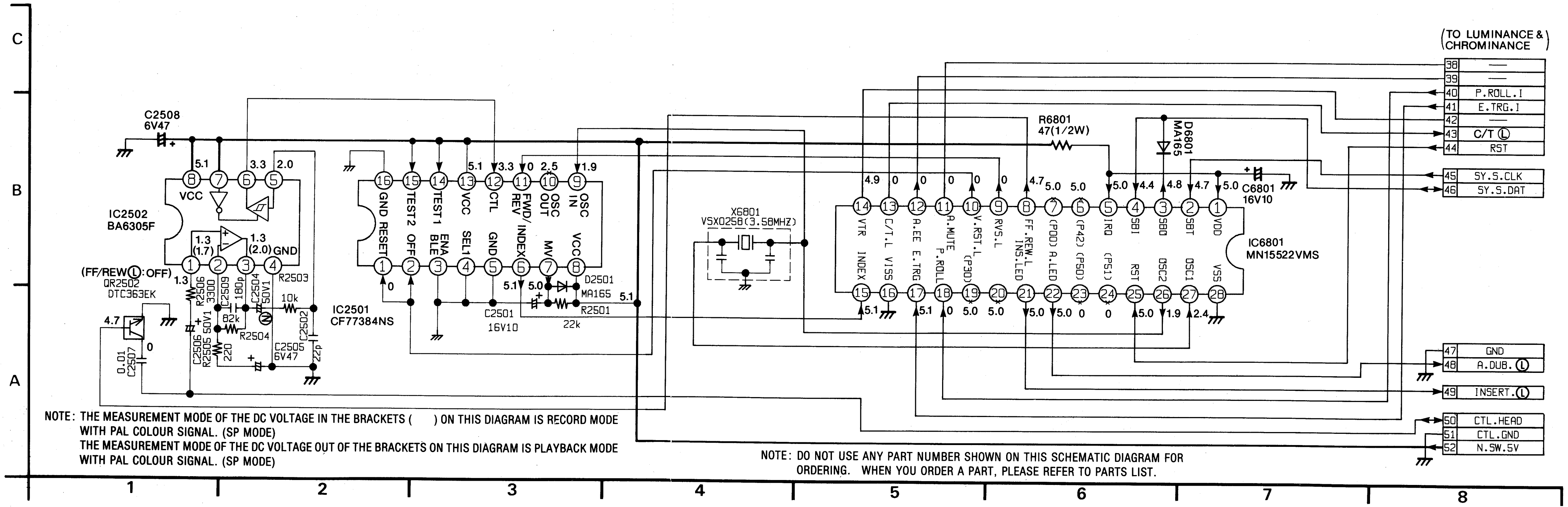
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

3-9. SUB MAIN C.B.A. (VEP03590B: NV-L25EG) (VEP03590C: NV-L25B)


SUB MAIN C.B.A. (VEP03590B: NV-L25EG) (VEP03590C: NV-L25B)
SUB SYSTEM CONTROL SECTION
LUMINANCE & CHROMINANCE SECTION
TO MAIN
DDR SECAM PACK C.B.A. (VEP03452B: NV-L25EG)
IC6801
IC2501
IC2502
QR2502
X6801
D6801
D2501
IC801
QR801
Q804
Q303
IC303
IC851
QR853
T851
SECAM KILLER ADJ.
FL851
FL801
FL303
DL802
X801
VR803
VR302
P.B CHROMA
V.BALANCE
(C801: NV-L25B JUMPER: NV-L25EG)
(NV-L25EG)
(NV-L25B)
C
B
A
1
2
3
4
5
6
7

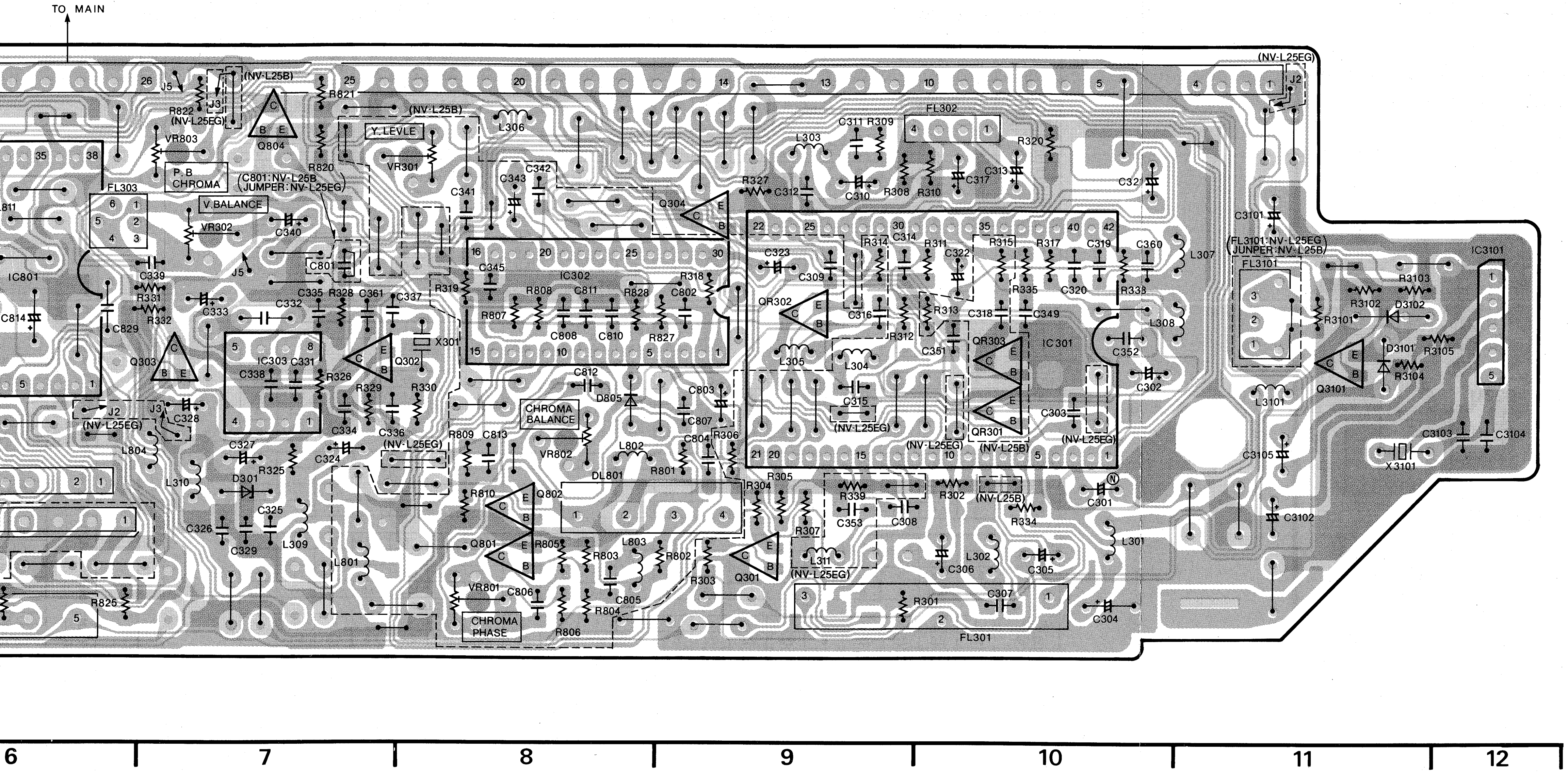
3-10. SUB MAIN (SUB SYSTEM CONTROL) SCHEMATIC DIAGRAM



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
CYLINDER DRIVE/
OSC/LUMINANCE &
CHROMINANCE Section



ANCE &)
ANCE

L.I
G.I

CLK
DAT

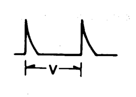
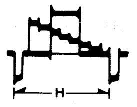
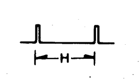
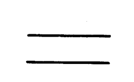
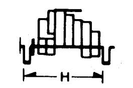
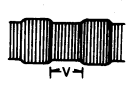
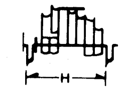
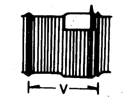
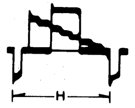
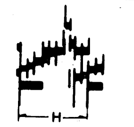
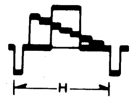
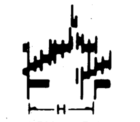
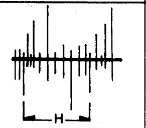
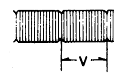
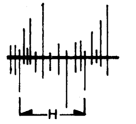
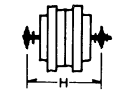
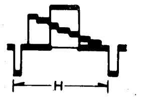
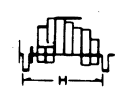
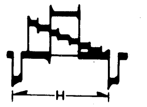
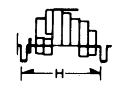
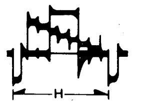
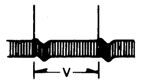
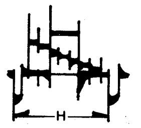
.Ⓛ
T.Ⓛ

EAD
GND
5V

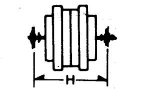
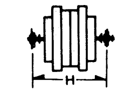
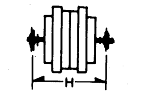
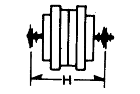
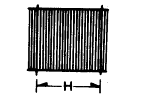
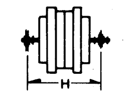
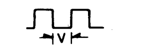
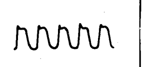
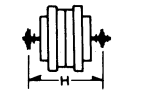
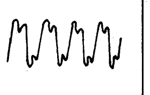
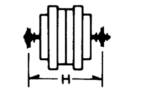
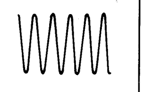
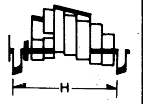
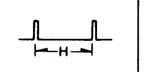
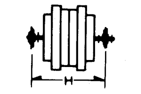
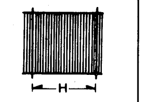
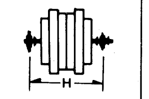
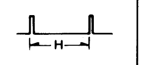
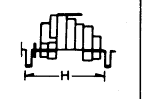
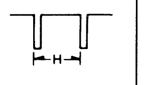
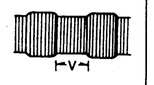
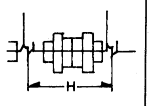
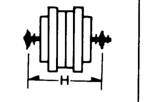
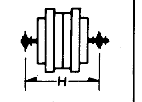
SUB MAIN C.B.A.			
Transistor		IC303	B-7
Q301	A-9	IC801	B-6
Q302	B-7	IC851	A-1
Q303	B-7	IC2501	B-2
Q304	C-9	IC2502	B-1
Q801	A-8	IC3101	B-12
Q802	A-8	IC6801	C-2
Q804	C-7	**Adjustment**	
Q3101	B-11	T851	A-2
Transistor & Resistor		VR301	C-8
QR301	B-10	VR302	C-7
QR302	B-9	VR801	A-8
QR303	B-10	VR802	B-8
QR801	B-6	VR803	C-7
QR853	A-2		
QR2502	C-2		
Integrated Circuit			
IC301	B-10		
IC302	B-8		

ADDRESS INFORMATION

IC301 (VEFH03D)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	 2.0Vp-p (REC/P.B)	17	 0.9Vp-p (REC/P.B)
2	 4.8Vp-p (REC/P.B)	22	 1.2Vp-p (REC)
3	 1.0Vp-p (REC/P.B)	23	 0.25Vp-p (P.B)
5	 0.9Vp-p (REC)	26	 0.9Vp-p (P.B)
5	 1.2Vp-p (P.B)	28	 0.5Vp-p (P.B)
7, 8	 0.46Vp-p (REC) 0.5Vp-p (P.B)	30	 1.5Vp-p (P.B)
9	 0.66Vp-p (REC)	33	 0.26Vp-p (P.B)
10	 0.6Vp-p (REC)	35	 0.44Vp-p (P.B)
11, 12	 0.3Vp-p (REC) 0.34Vp-p (P.B)	37, 38	 0.9Vp-p (REC/P.B)
13	 1.0Vp-p (REC/P.B)	40	 2.3Vp-p (REC/P.B)
15	 0.9Vp-p (REC/P.B)	41	 0.5Vp-p (REC) 0.56Vp-p (P.B)
16	 0.7Vp-p (REC/P.B)		

IC801 (VEFH04A)

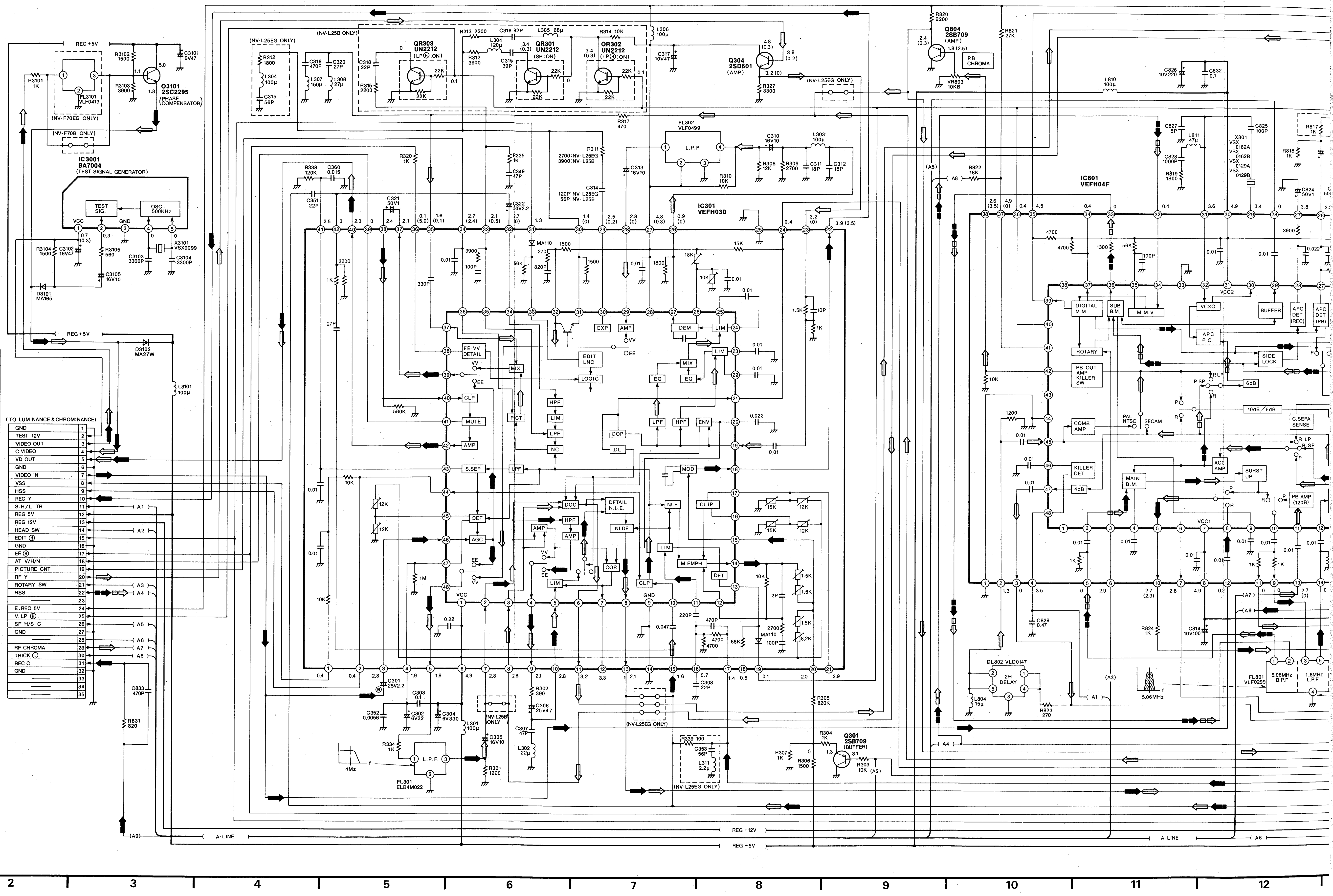
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	 0.16Vp-p (REC) 0.12Vp-p (P.B)	15	 0.48Vp-p (REC)
3	 0.9Vp-p (REC) 0.7Vp-p (P.B)	17	 0.44Vp-p (REC/P.B)
5	 0.2Vp-p (REC) 0.25Vp-p(P.B)	19	 0.3Vp-p (REC) 0.2Vp-p (P.B)
6	 5.0Vp-p (REC/P.B)	28	 0.8Vp-p (REC/P.B)
7	 0.6Vp-p (REC) 0.38Vp-p (P.B)	29	 1.1Vp-p (REC/P.B)
9	 0.36Vp-p (REC) 0.38Vp-p (P.B)	31	 0.76Vp-p (REC/P.B)
10	 1.1Vp-p (REC)	32	 4.8Vp-p (REC/P.B)
10	 0.74Vp-p (P.B)	33	 1.0Vp-p (REC/P.B)
11	 0.38Vp-p (REC/P.B)	34	 5.0Vp-p (REC/P.B)
12	 1.0Vp-p (REC/P.B)	35	 5.0Vp-p (REC/P.B)
13	 0.4Vp-p (P.B)	37	 0.38Vp-p (P.B)
14	 0.32Vp-p (REC/P.B)	38	 1.0Vp-p (P.B)

3-11. SUB MAIN (LUMINANCE & CHROMINANCE) SCHEMATIC DIAGRAM

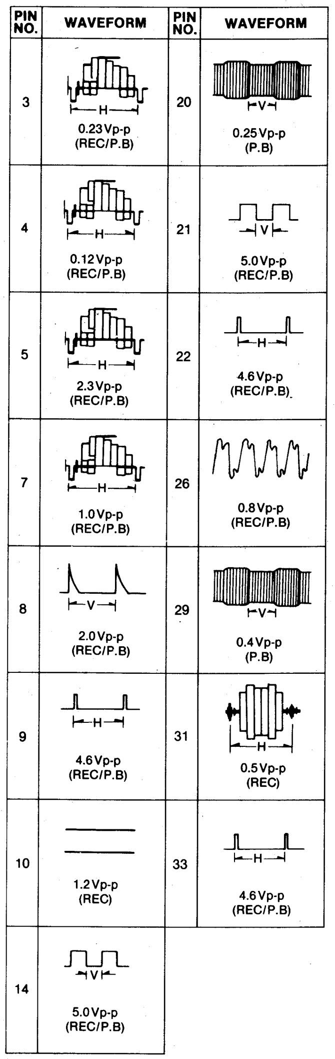
◀ MAIN SIGNAL PATH IN REC MODE

◁ MAIN SIGNAL PATH IN PLAYBACK MODE

◀■ 5.06MHz PHASE ROTATIONAL SIGNA

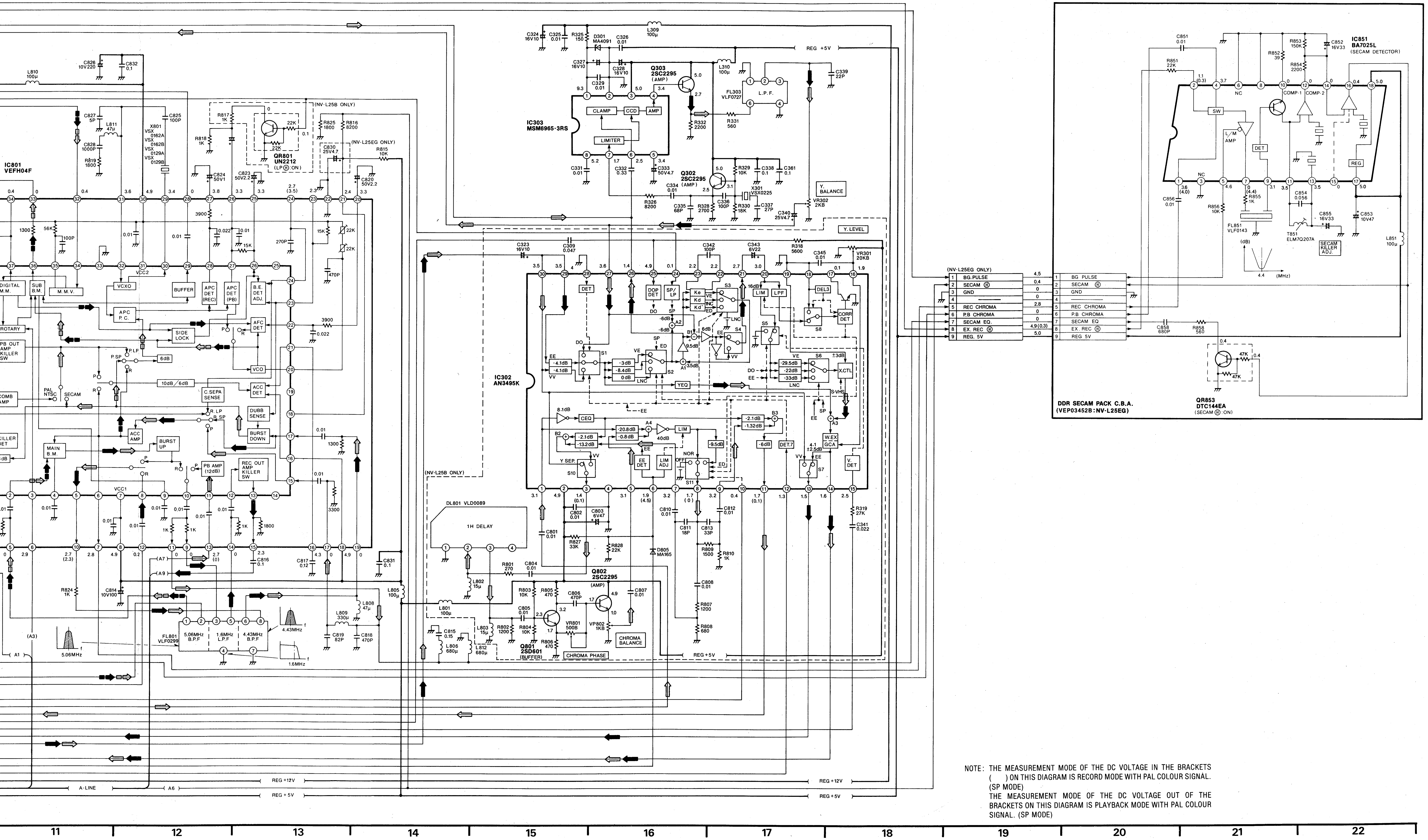


WAVEFORM OF SUB MAIN C.B.A. PINS



PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
3	0.23Vp-p (REC/P.B)	20	0.25Vp-p (P.B)
4	0.12Vp-p (REC/P.B)	21	5.0Vp-p (REC/P.B)
5	2.3Vp-p (REC/P.B)	22	4.6Vp-p (REC/P.B)
7	1.0Vp-p (REC/P.B)	26	0.8Vp-p (REC/P.B)
8	2.0Vp-p (REC/P.B)	29	0.4Vp-p (P.B)
9	4.6Vp-p (REC/P.B)	31	0.5Vp-p (REC)
10	1.2Vp-p (REC)	33	4.6Vp-p (REC/P.B)
14	5.0Vp-p (REC/P.B)		

Hz PHASE ROTATIONAL SIGNAL IN REC MODE ⇦ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

3-12. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM (NV-L25EG)

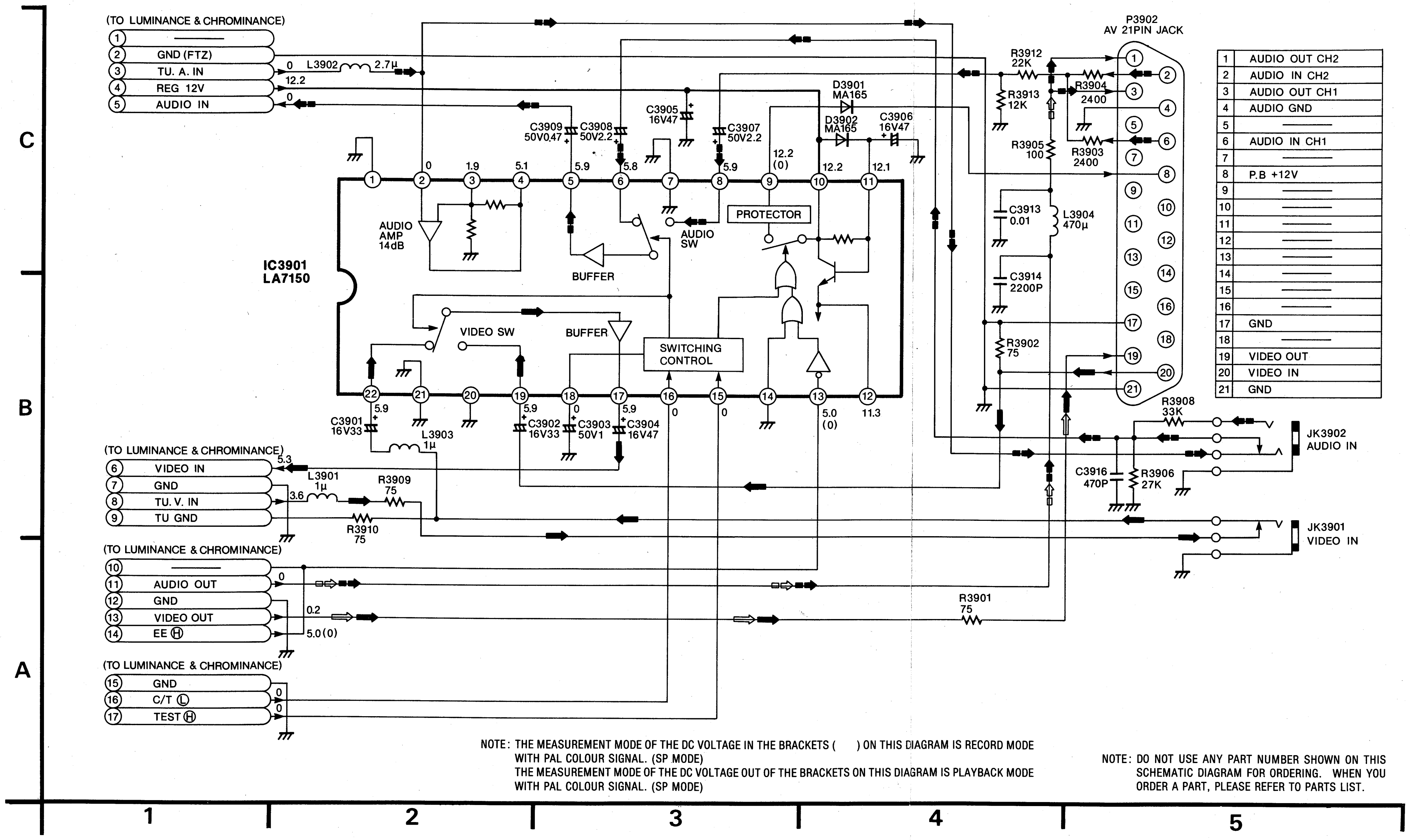
3-13. INPUT/OUTPUT PACK C.B.A. (VEP03594B

⬅ VIDEO MAIN SIGNAL PATH IN REC MODE

⇦ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

⬅■ AUDIO MAIN SIGNAL PATH IN REC MODE

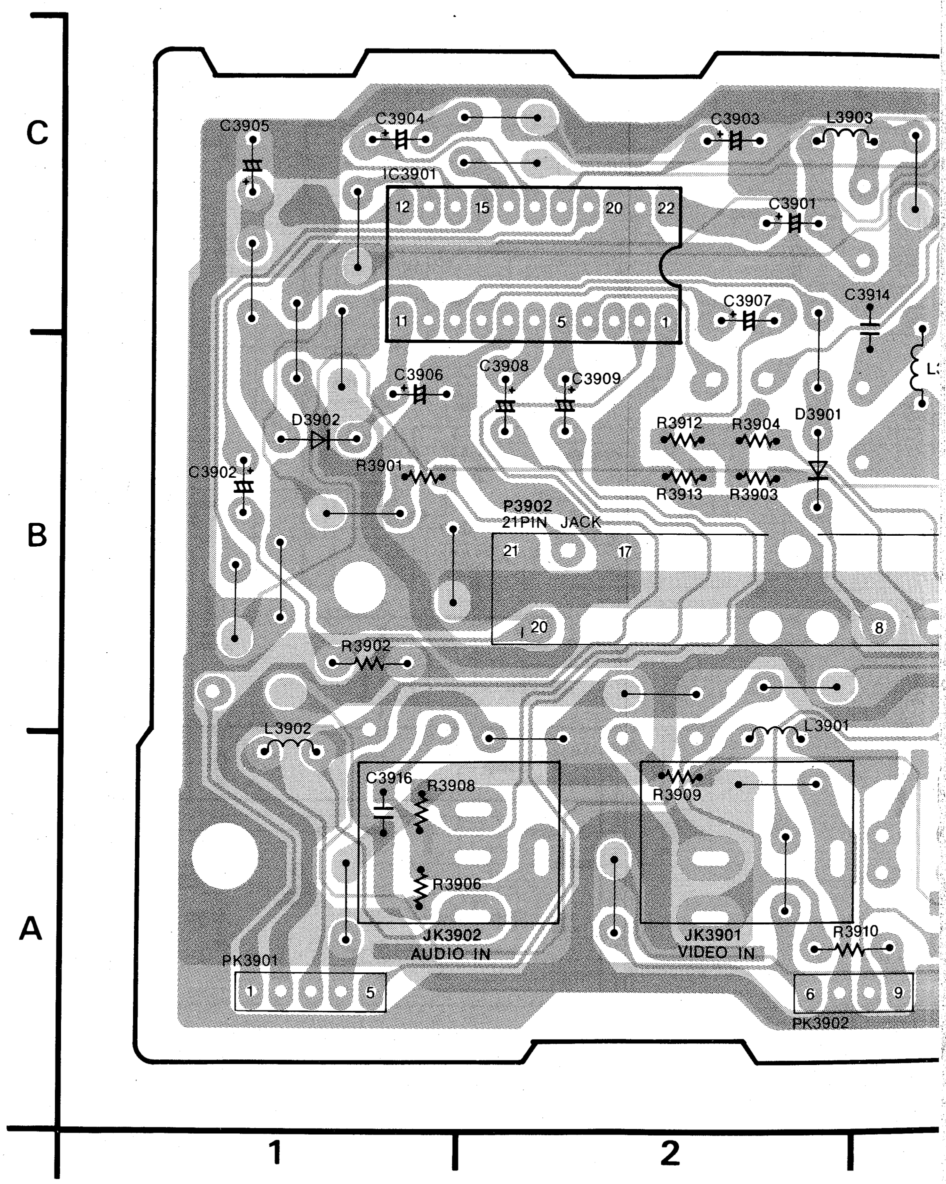
⇦□ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



1	AUDIO OUT CH2
2	AUDIO IN CH2
3	AUDIO OUT CH1
4	AUDIO GND
5	———
6	AUDIO IN CH1
7	———
8	P.B +12V
9	———
10	———
11	———
12	———
13	———
14	———
15	———
16	———
17	GND
18	———
19	VIDEO OUT
20	VIDEO IN
21	GND

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

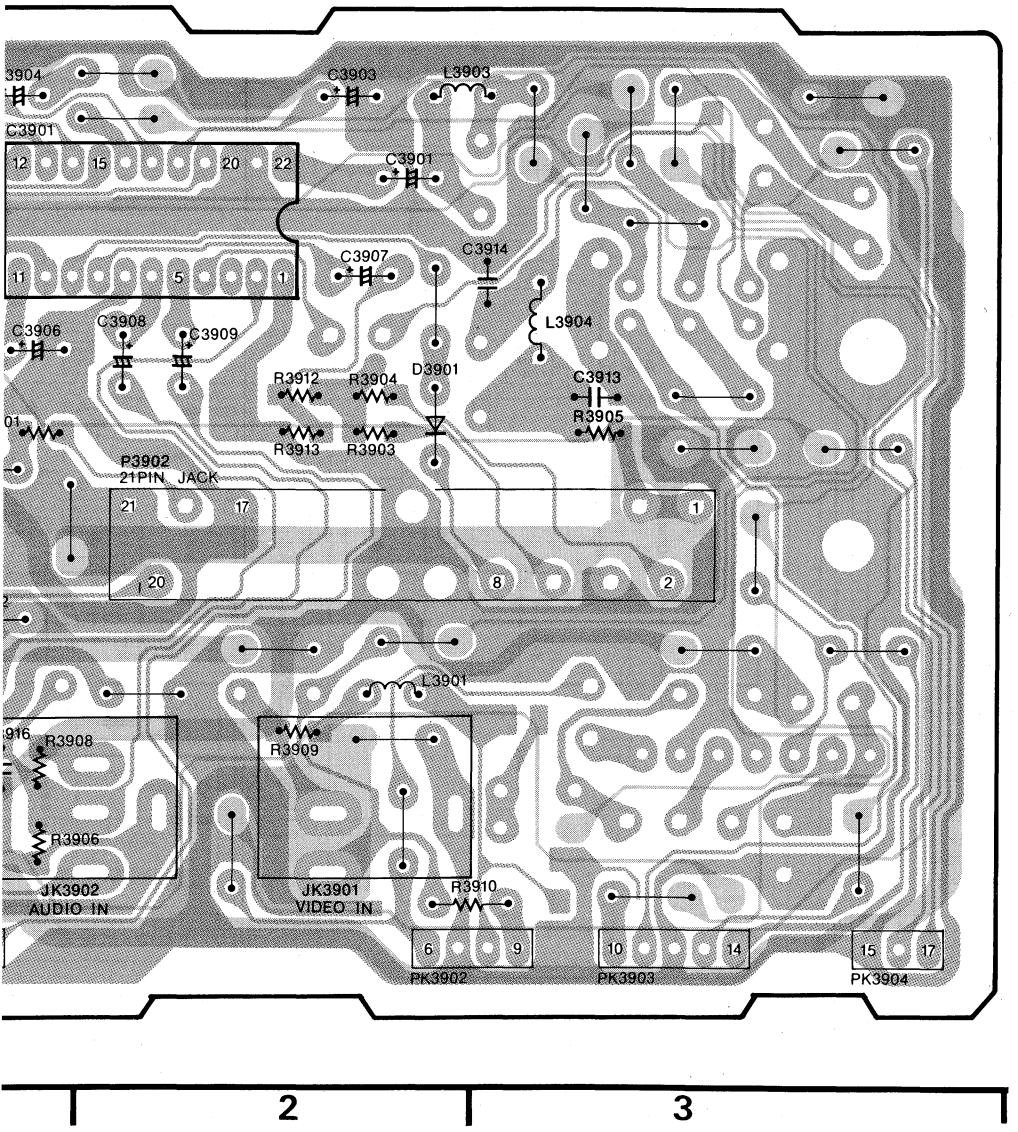
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



’UT PACK C.B.A. (VEP03594B: NV-L25EG)

INPUT/OUTPUT PACK C.B.A.	
Integrated Circuit	
IC3901	C-1
Connector	
P3902	B-2
PK3901	A-1
PK3902	A-2
PK3903	A-3
PK3904	A-4

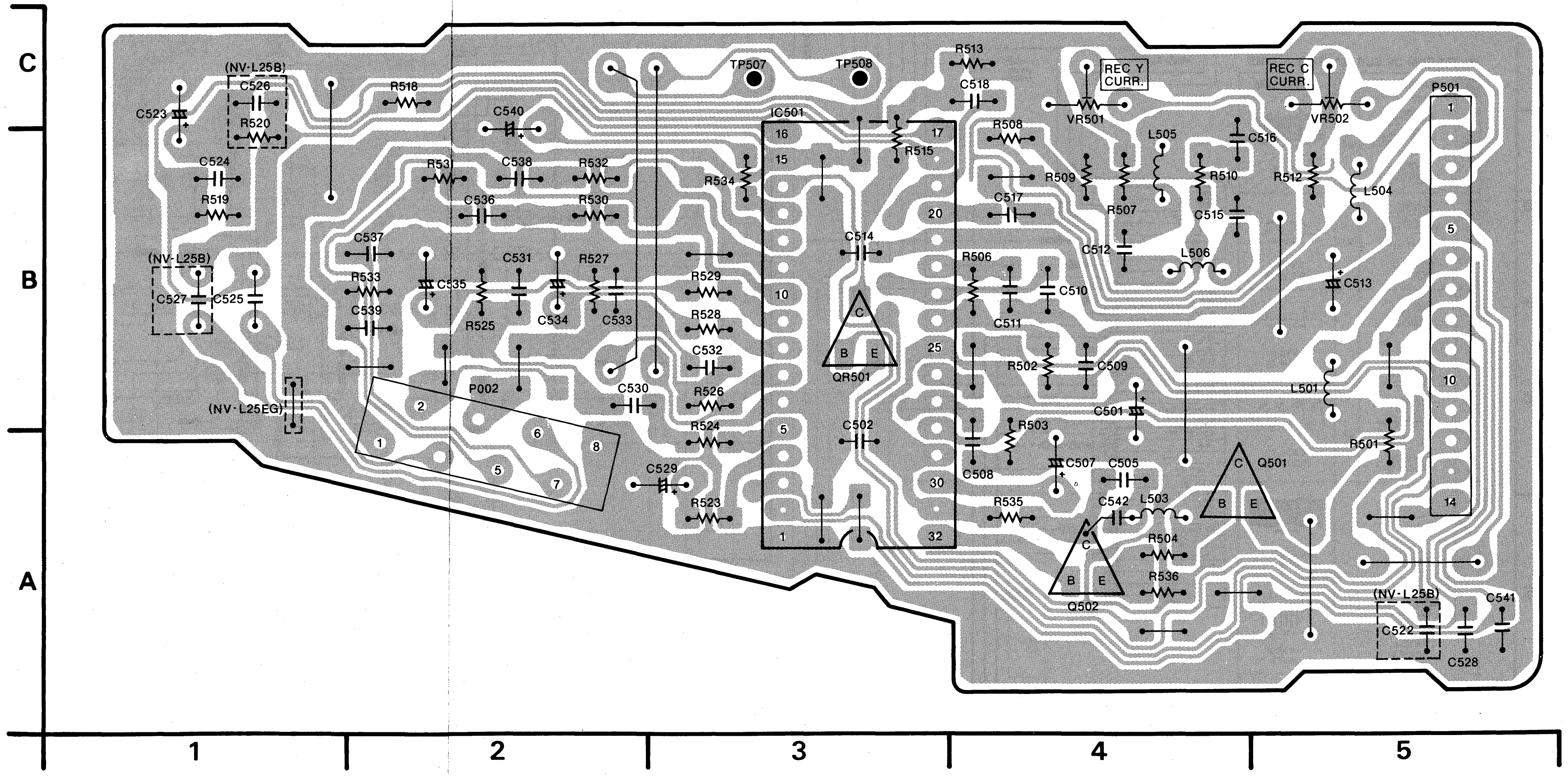
ADDRESS INFORMATION



3-14. HEAD AMP C.B.A. (VEP05137D: NV-L25EG) (VEP05137A: NV-L25B)

HEAD AMP C.B.A.	
Transistor	
Q501 Q502	A-5 A-4
Transistor & Resistor	
QR501	B-3
Integrated Circuit	
IC501	C-3
Test Point	
TP507 TP508	C-3 C-3
Adjustment	
VR501 VR502	C-4 C-5
Connector	
P001 P501	B-2 C-5

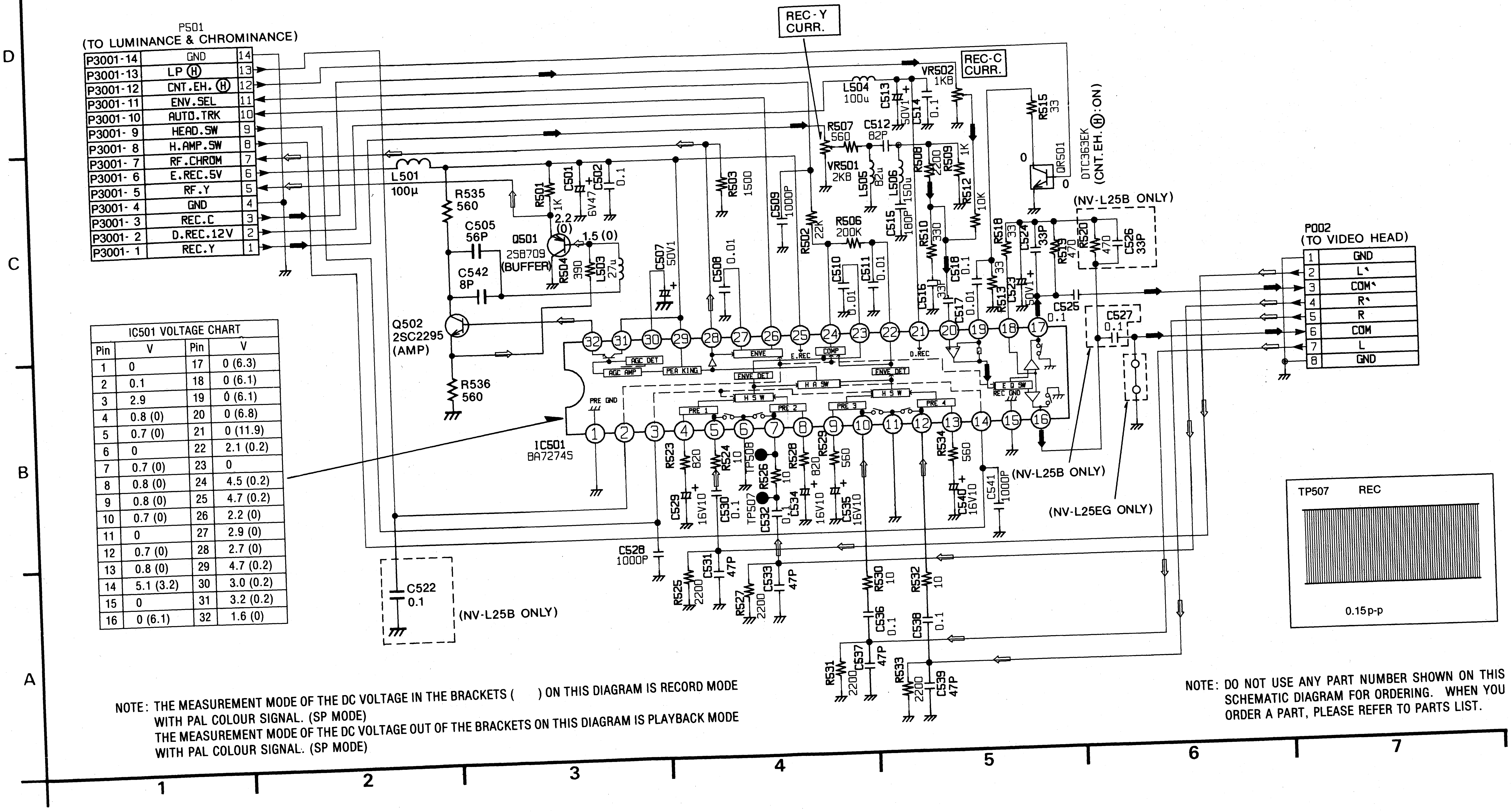
ADDRESS INFORMATION



3-15. HEAD AMP SCHEMATIC DIAGRAM

⬅ MAIN SIGNAL PATH IN REC MODE

⇦ MAIN SIGNAL PATH IN PLAYBACK MODE

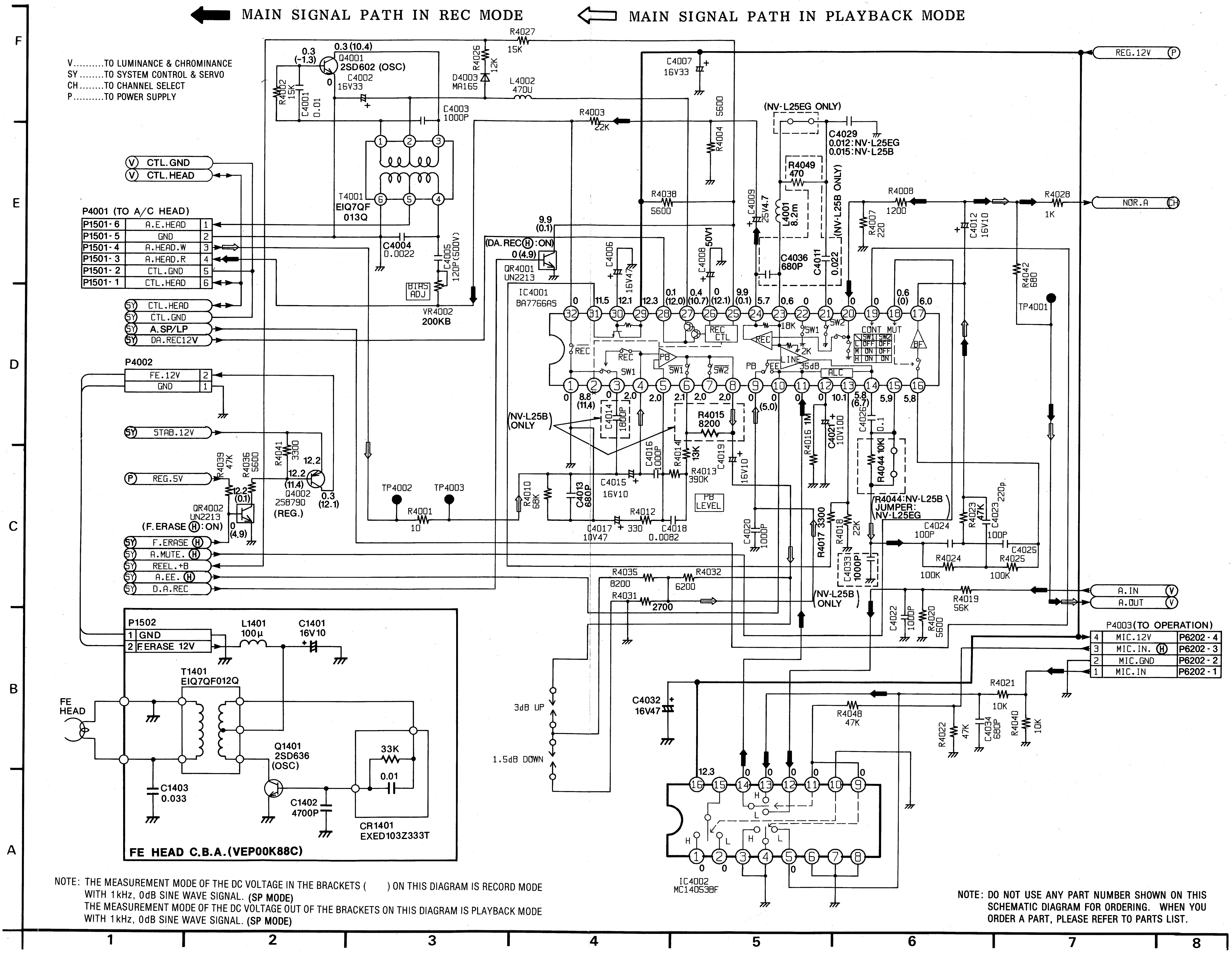


IC501 VOLTAGE CHART			
Pin	V	Pin	V
1	0	17	0 (6.3)
2	0.1	18	0 (6.1)
3	2.9	19	0 (6.1)
4	0.8 (0)	20	0 (6.8)
5	0.7 (0)	21	0 (11.9)
6	0	22	2.1 (0.2)
7	0.7 (0)	23	0
8	0.8 (0)	24	4.5 (0.2)
9	0.8 (0)	25	4.7 (0.2)
10	0.7 (0)	26	2.2 (0)
11	0	27	2.9 (0)
12	0.7 (0)	28	2.7 (0)
13	0.8 (0)	29	4.7 (0.2)
14	5.1 (3.2)	30	3.0 (0.2)
15	0	31	3.2 (0.2)
16	0 (6.1)	32	1.6 (0)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-16. AUDIO SCHEMATIC DIAGRAM

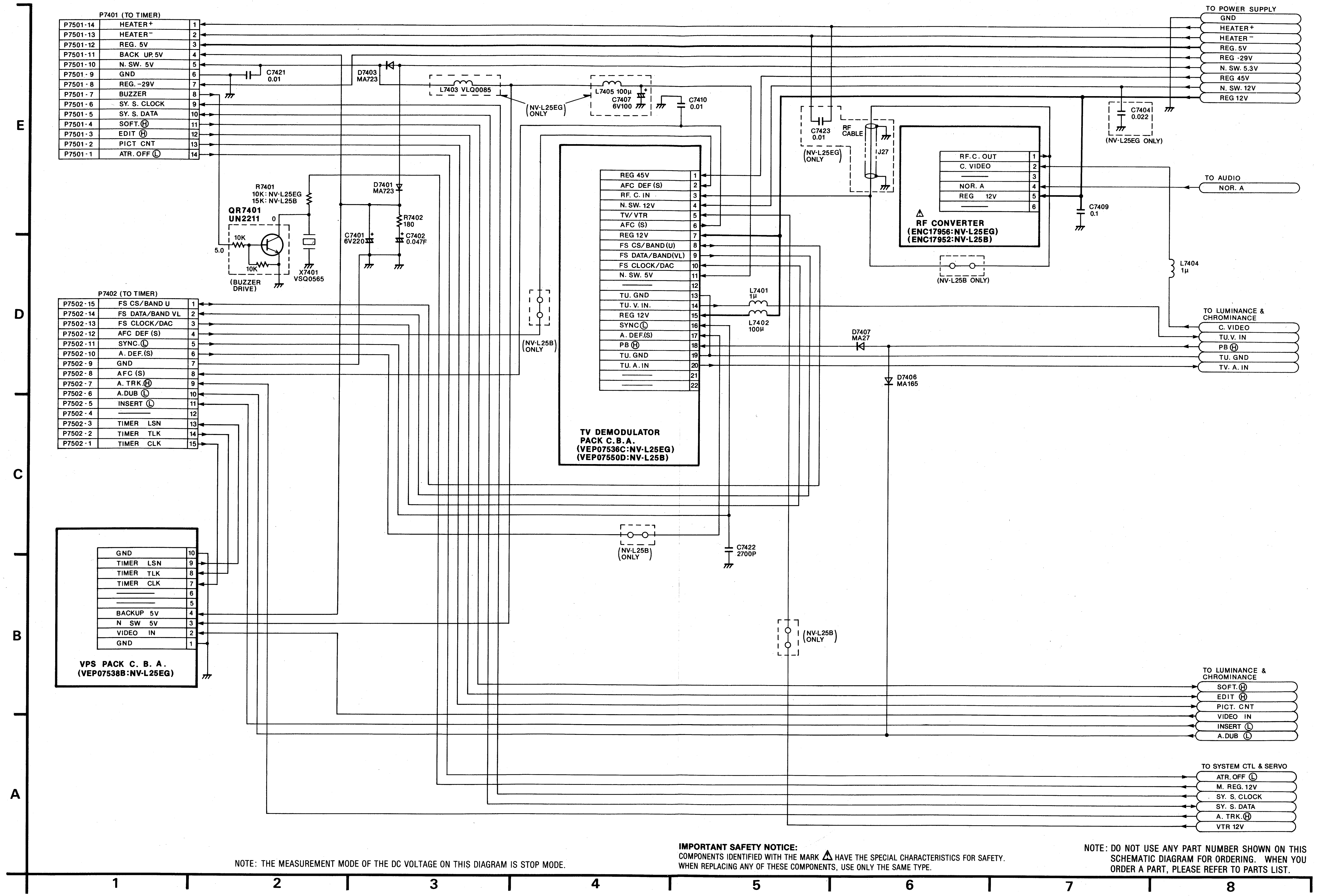


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH 1kHz, 0dB SINE WAVE SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH 1kHz, 0dB SINE WAVE SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
HEAD AMP Section

3-17. CHANNEL SELECT SCHEMATIC DIAGRAM



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

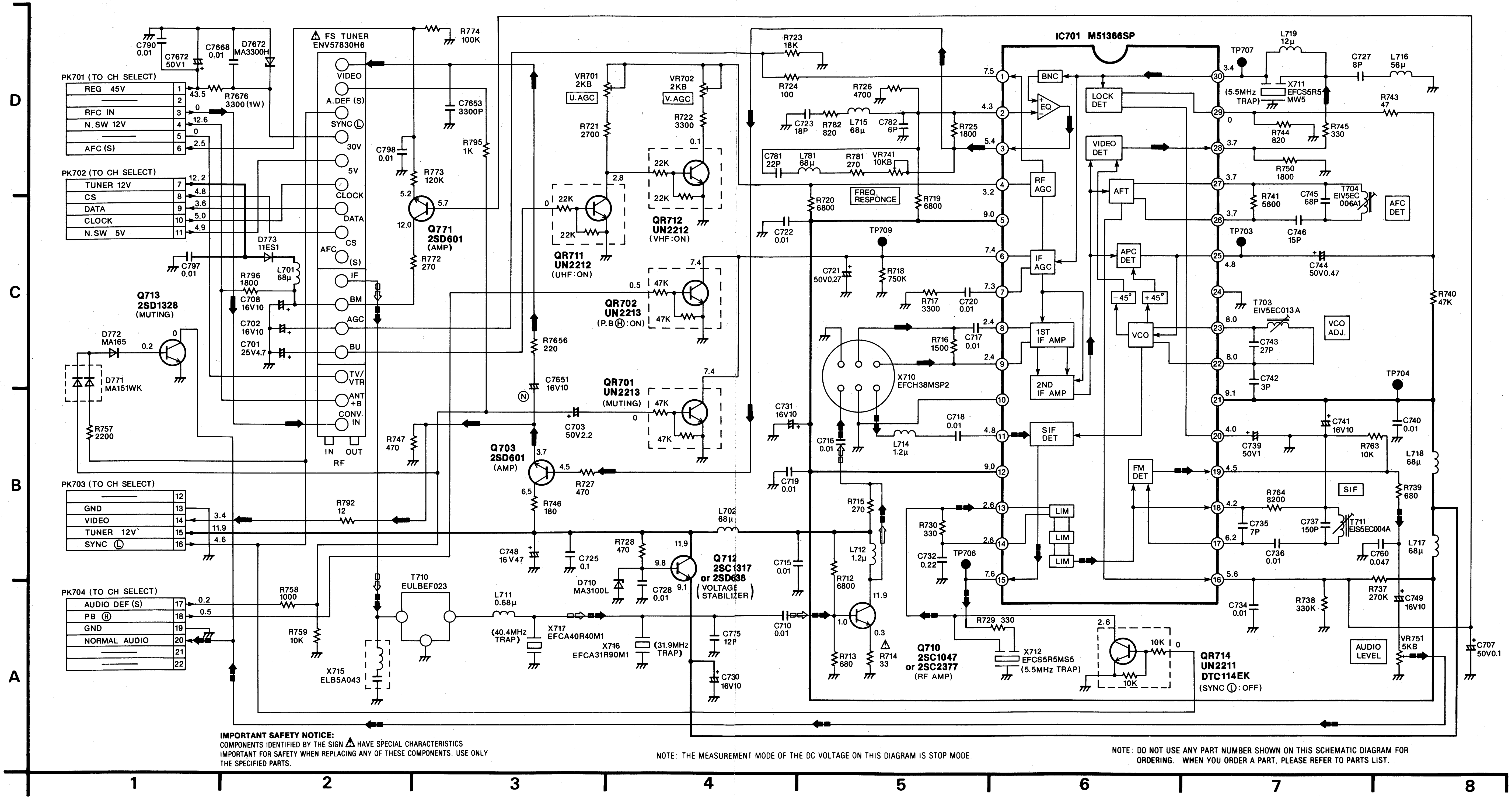
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-18. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-L25EG)

VIDEO SIGNAL PATH

AUDIO SIGNAL PATH



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

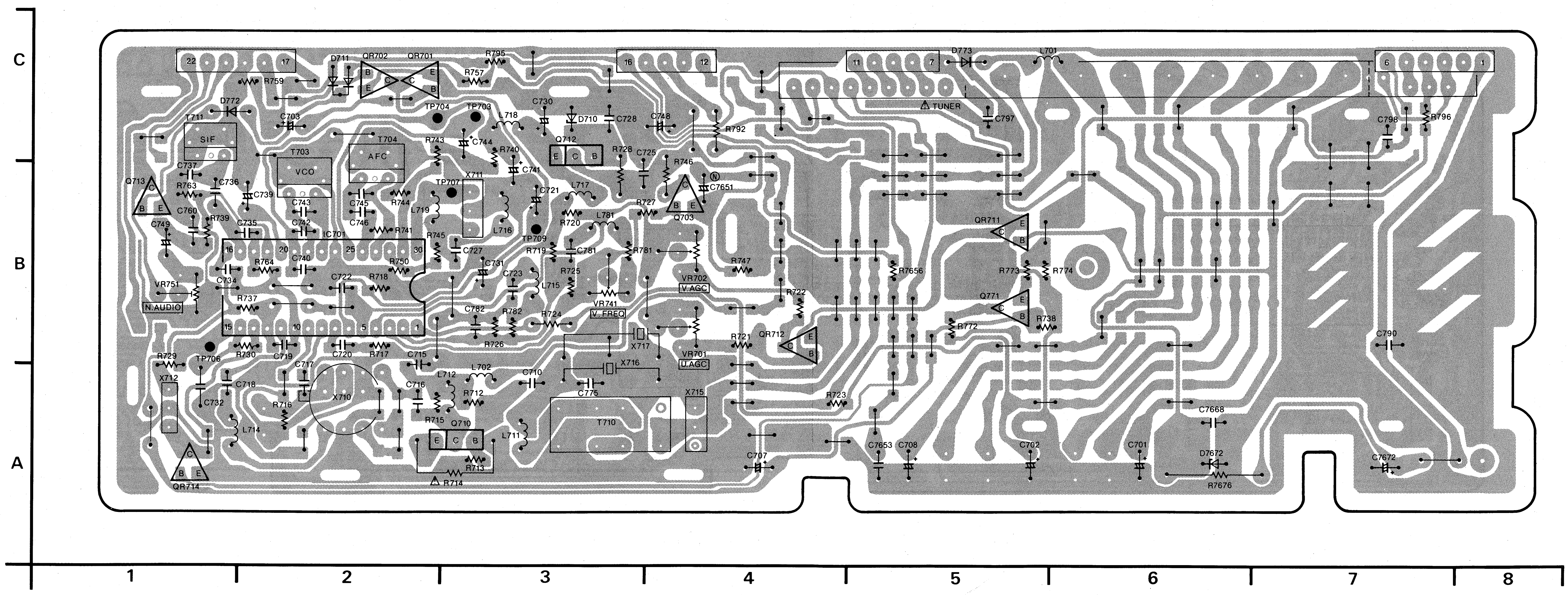
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
CHANNEL SELECT Section

3-19. TV DEMODULATOR PACK C.B.A. (VEP07536C: NV-L25EG)

TV DEMODULATOR PACK C.B.A.			
Transistor		**Test Point**	
Q703	B-4	TP703	C-3
Q710	A-3	TP704	C-2
Q712	C-3	TP706	B-1
Q713	B-1	TP707	B-3
Q771	B-5	TP709	B-3
Transistor & Resistor		**Adjustment**	
QR701	C-2	T703	B-2
QR702	C-2	T704	C-2
QR711	B-5	T710	A-3
QR712	B-4	T711	C-1
QR714	A-1	VR701	B-4
Integrated Circuit		VR702	B-4
		VR741	B-3
IC701	B-2	VR751	B-1

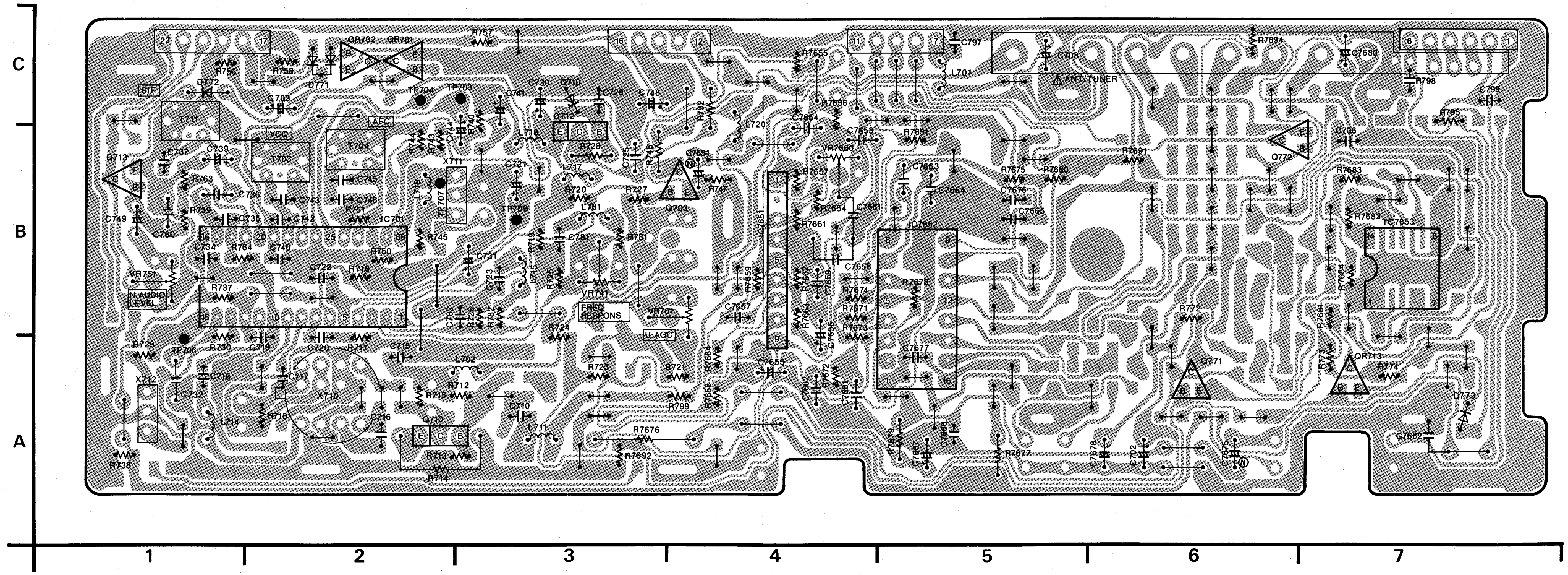
ADDRESS INFORMATION



3-20. TV DEMODULATOR PACK C.B.A. (VEP07550D: NV-L25B)

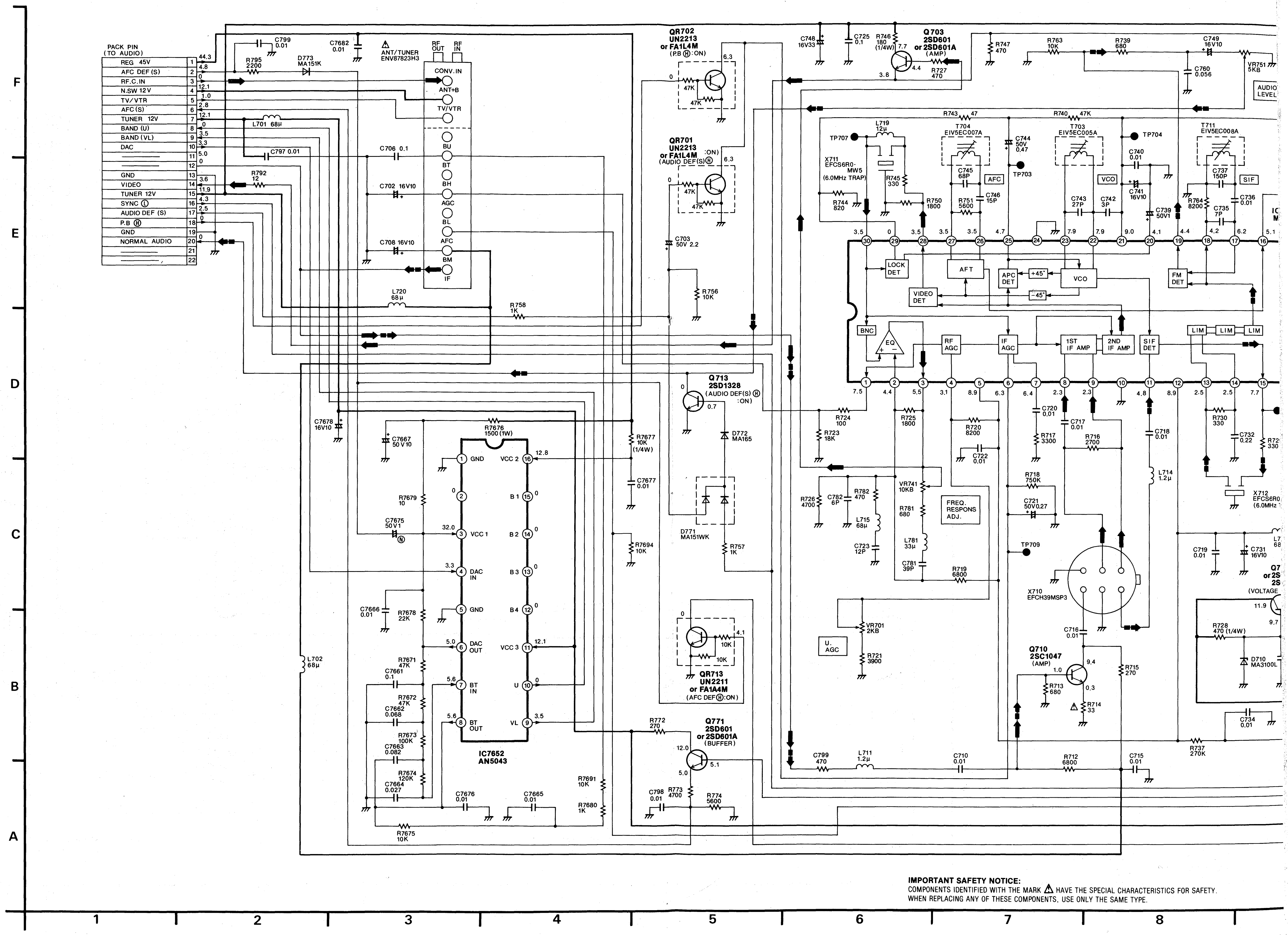
TV DEMODULATOR PACK C.B.A.			
Transistor		**Test Point**	
Q703	B-4	TP703	C-3
Q710	A-2	TP704	C-2
Q712	B-3	TP707	B-2
Q713	B-1	TP709	B-3
Q771	A-6	**Adjustment**	
Q772	B-6	VR701	B-3
Transistor & Resistor		VR741	B-3
QR701	C-2	VR751	B-1
QR702	C-2	T703	B-2
QR713	A-7	T704	B-2
Integrated Circuit		T711	C-1
IC701	B-2		
IC7651	B-4		
IC7652	B-5		
IC7653	B-7		

ADDRESS INFORMATION

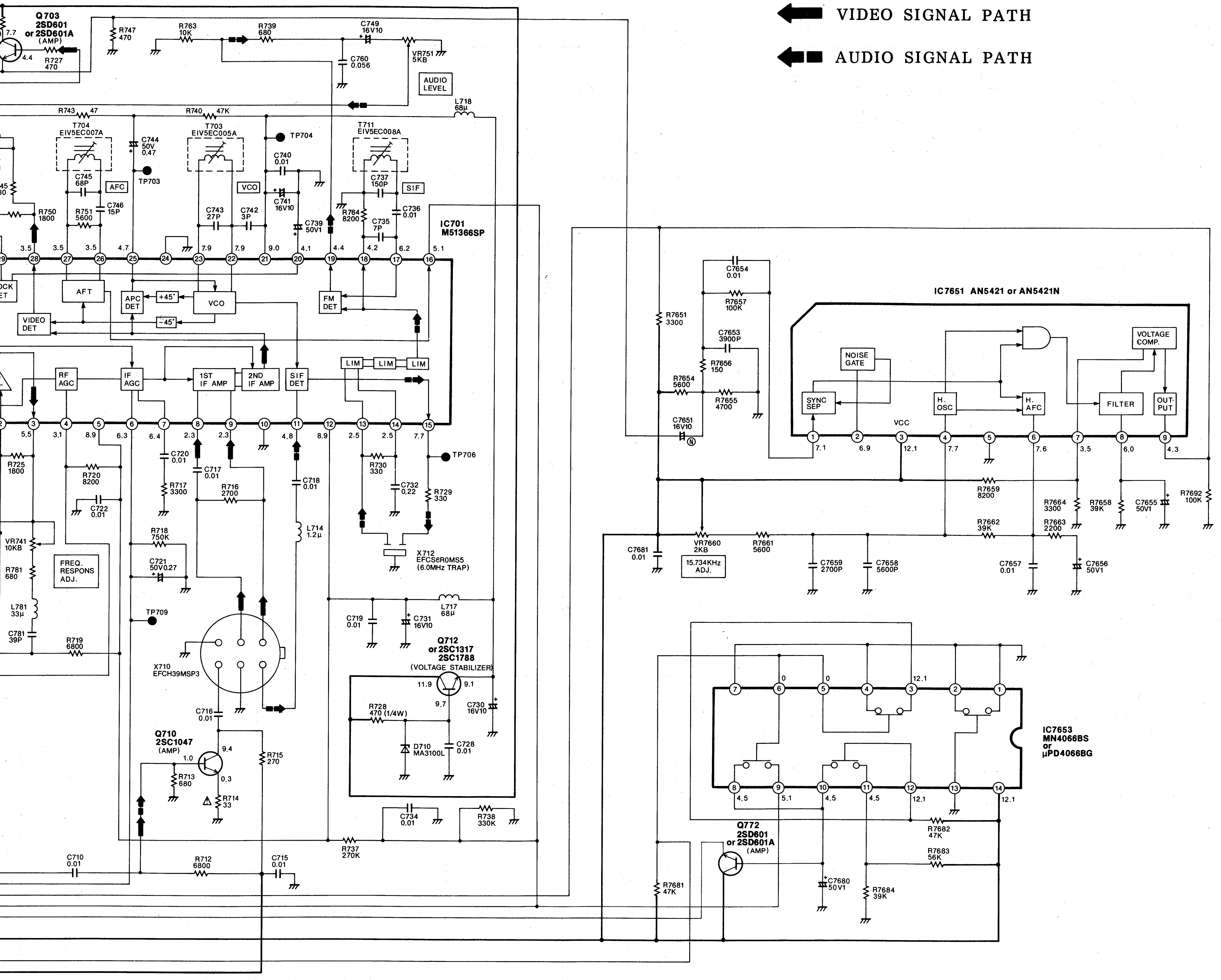


Back Page:
TV DEMODULATOR Section

3-21. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-L25B)



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



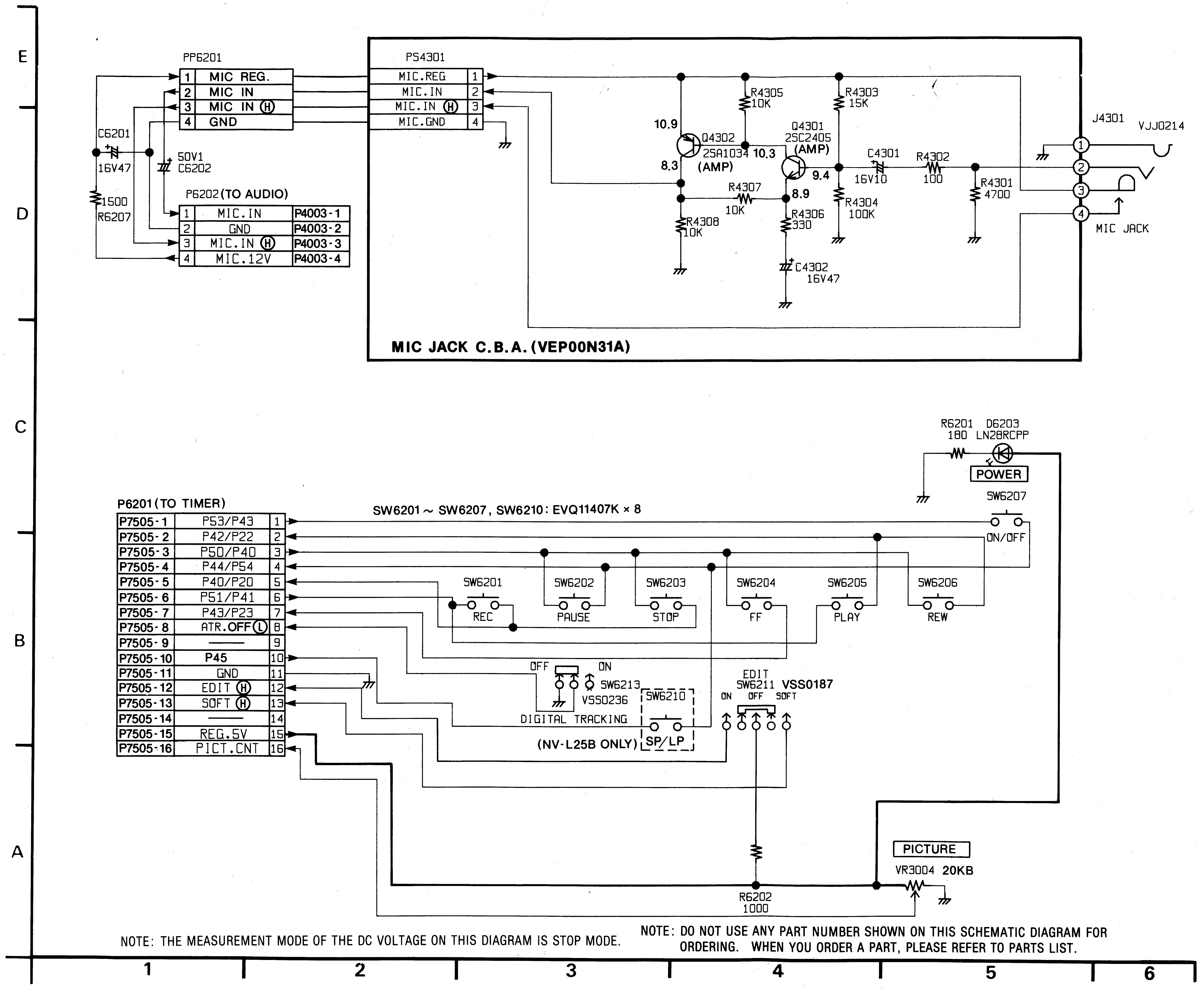
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
OPERATION Section

3-22. OPERATION SCHEMATIC DIAGRAM

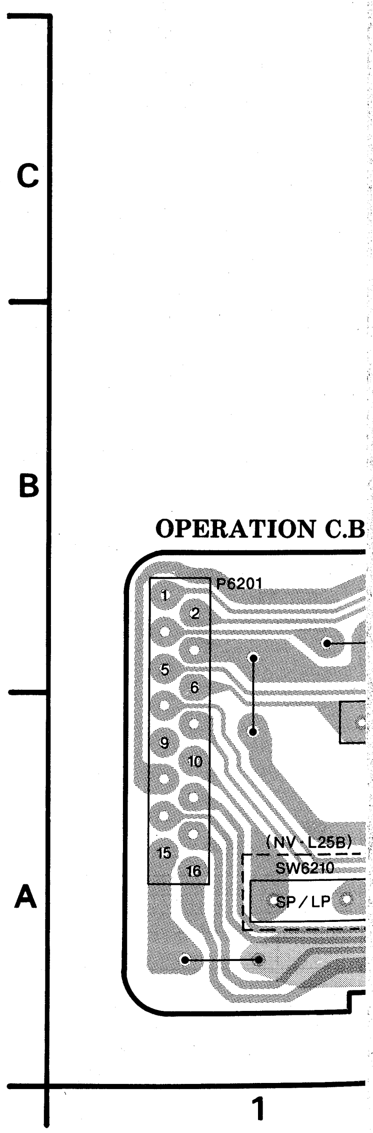


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

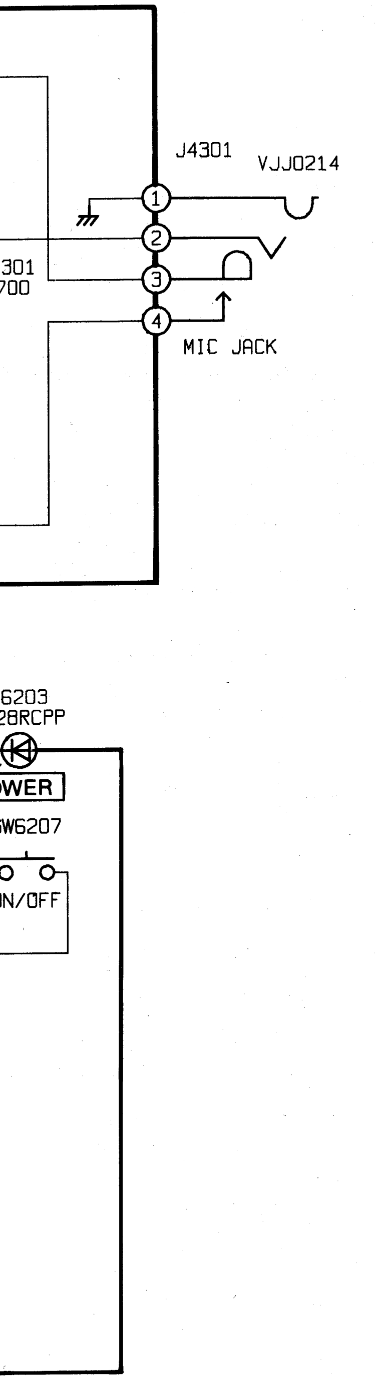
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-23. OPERATIO

OPERATION C.B



3-23. OPERATION C.B.A. (VEP06558G: NV-L25EG) (VEP06558A: NV-L25B)

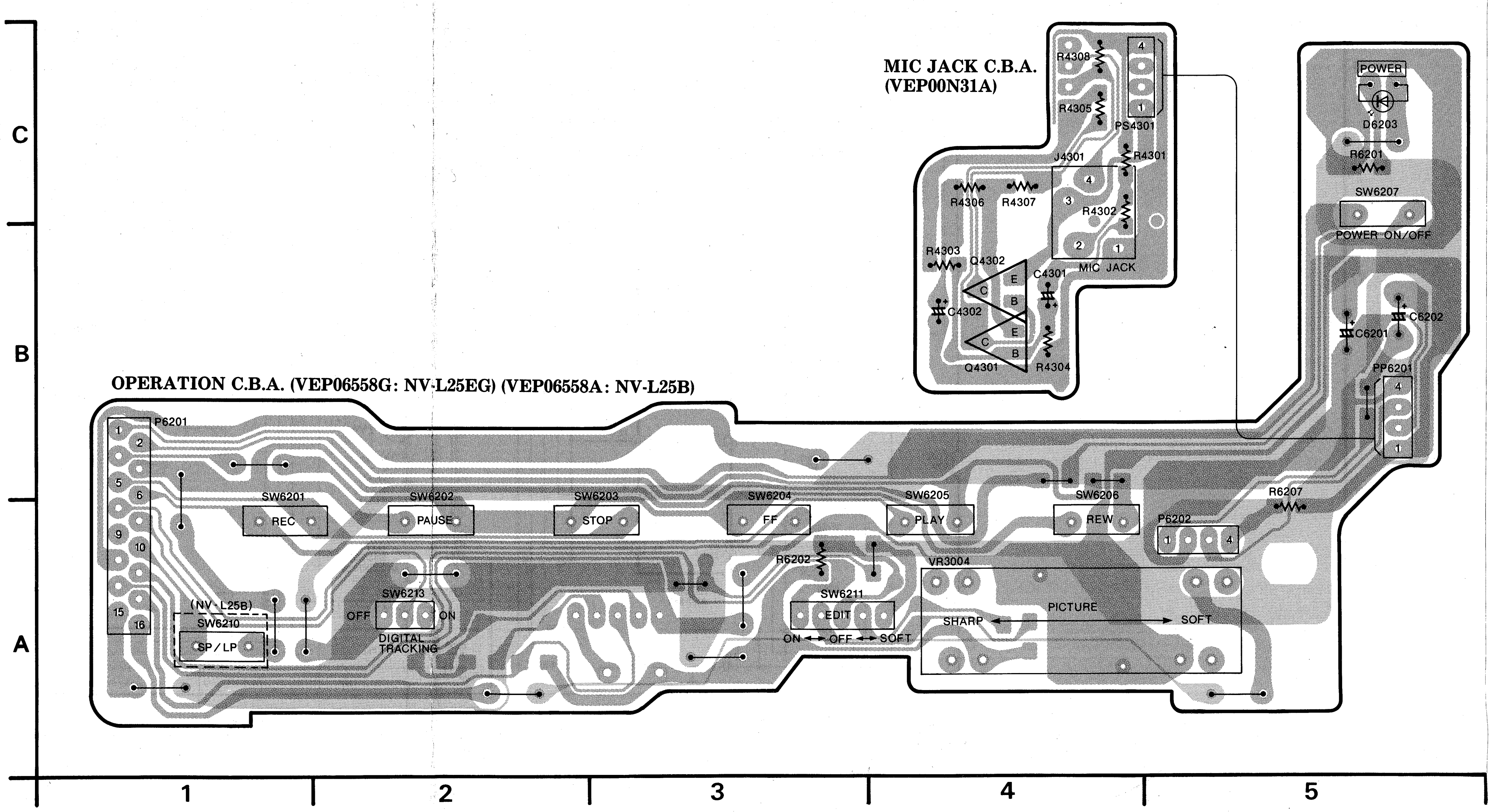


MATIC DIAGRAM FOR
TO PARTS LIST.

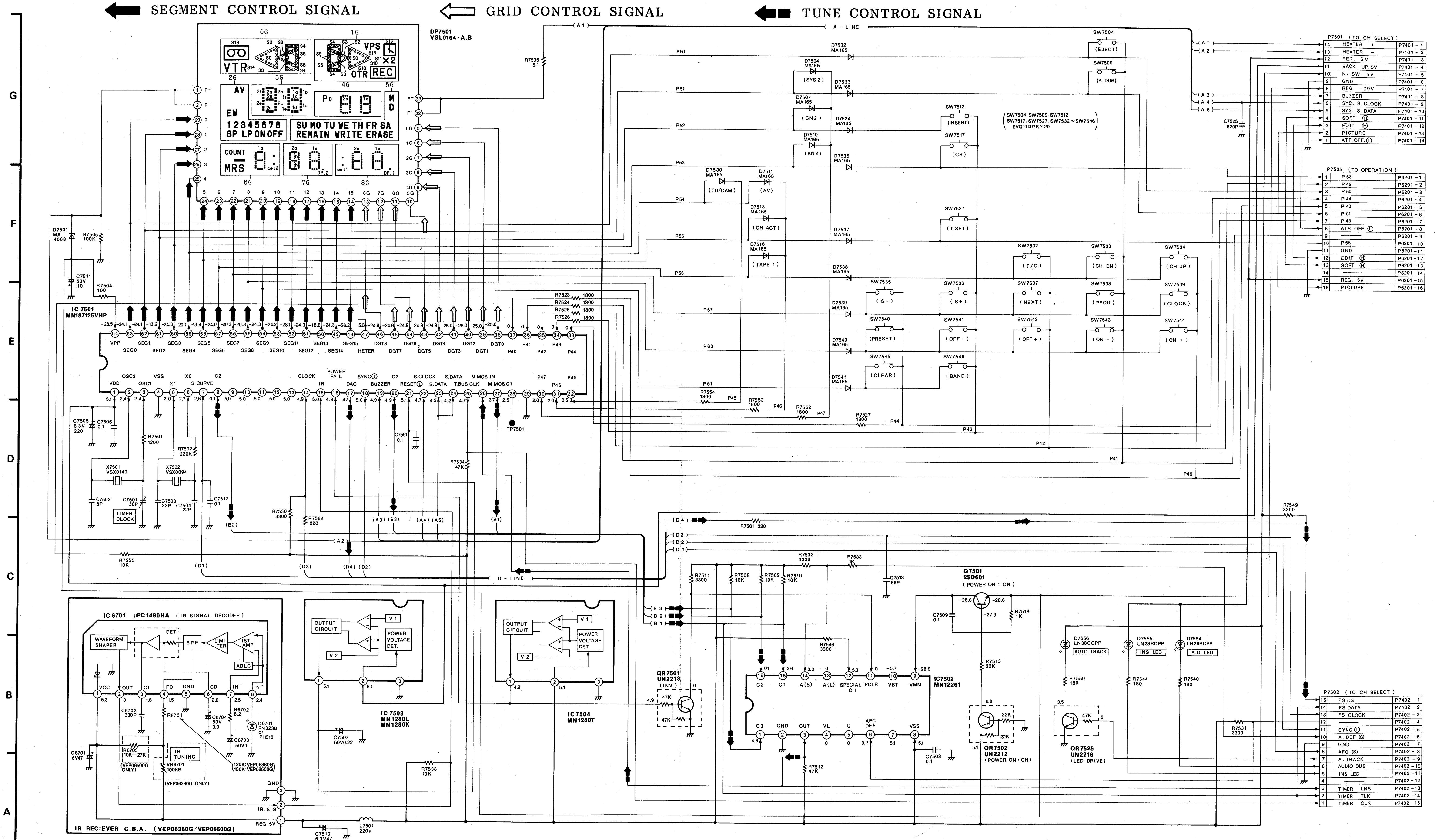
5 6

OPERATION C.B.A. & MIC JACK C.B.A.	
Transistor	
Q4301 Q4302	B-4 B-4
Adjustment	
VR3004	A-4
Connector	
P6201 P6202 PP6201 PS4301	B-1 A-5 B-5 C-4

ADDRESS INFORMATION

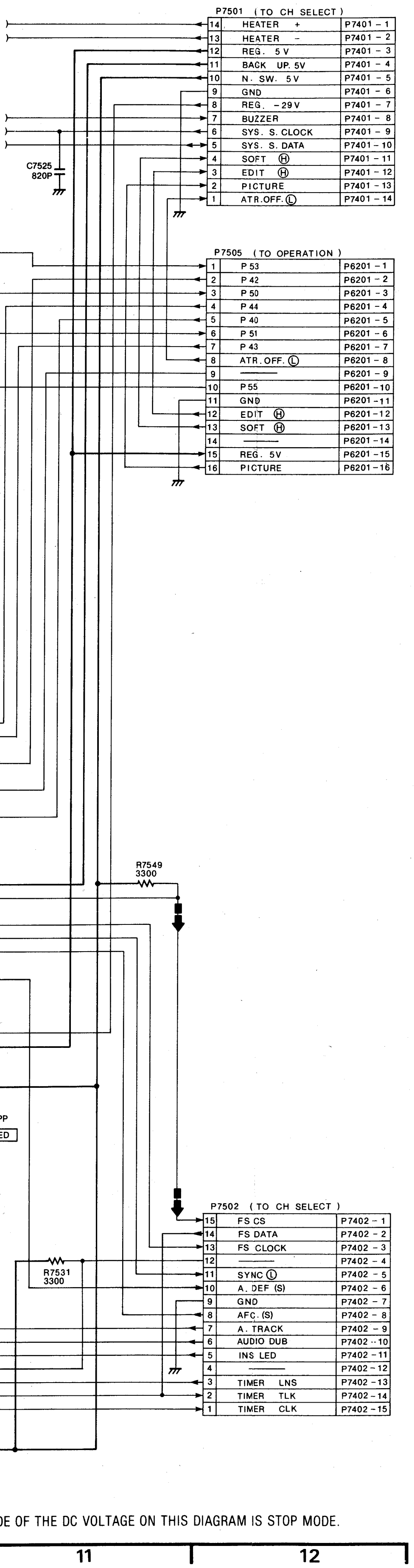


3-24. TIMER SCHEMATIC DIAGRAM (NV-L25EG)



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

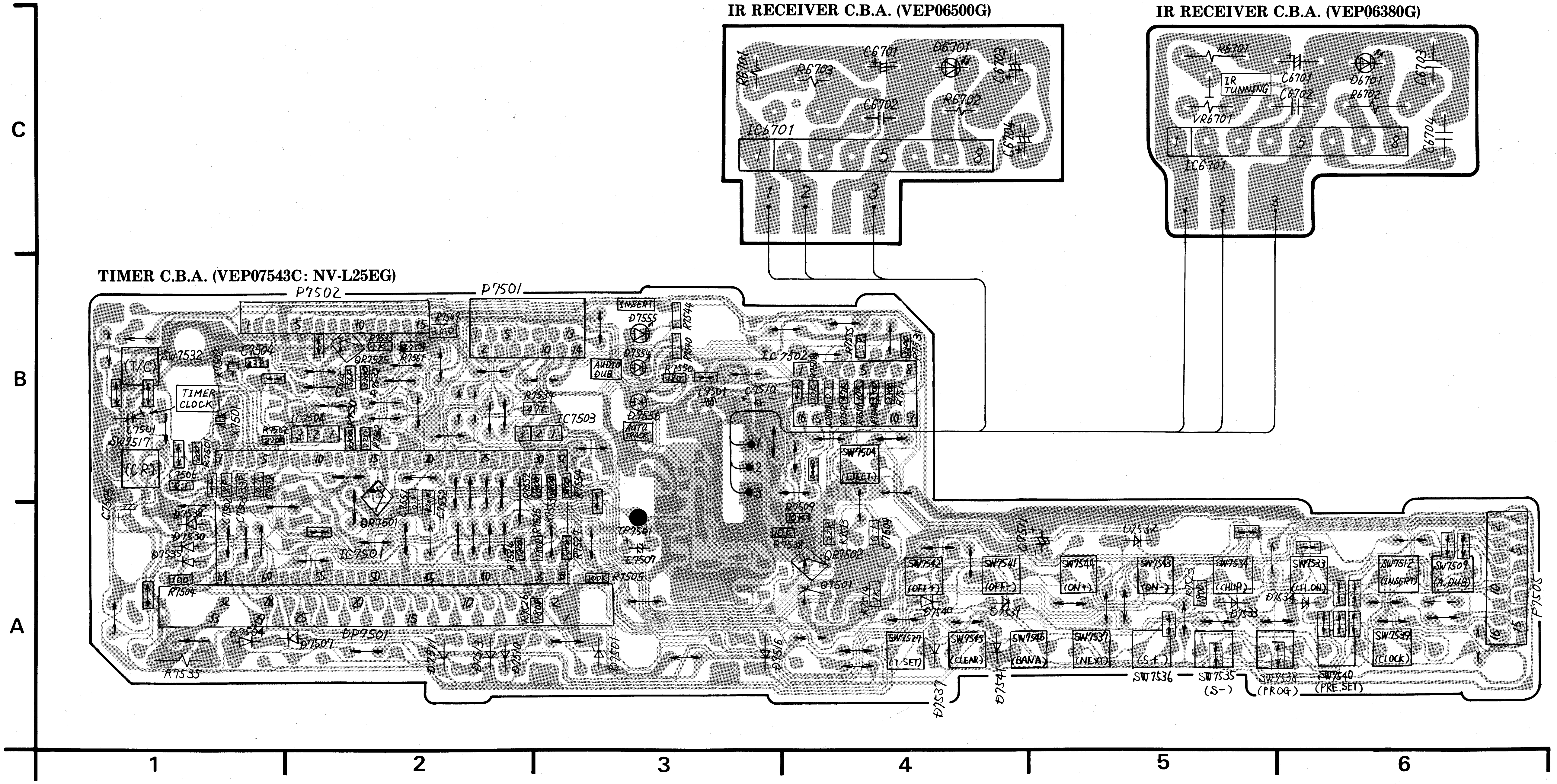


DE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-25. TIMER C.B.A. (VEP07543C: NV-L25EG)

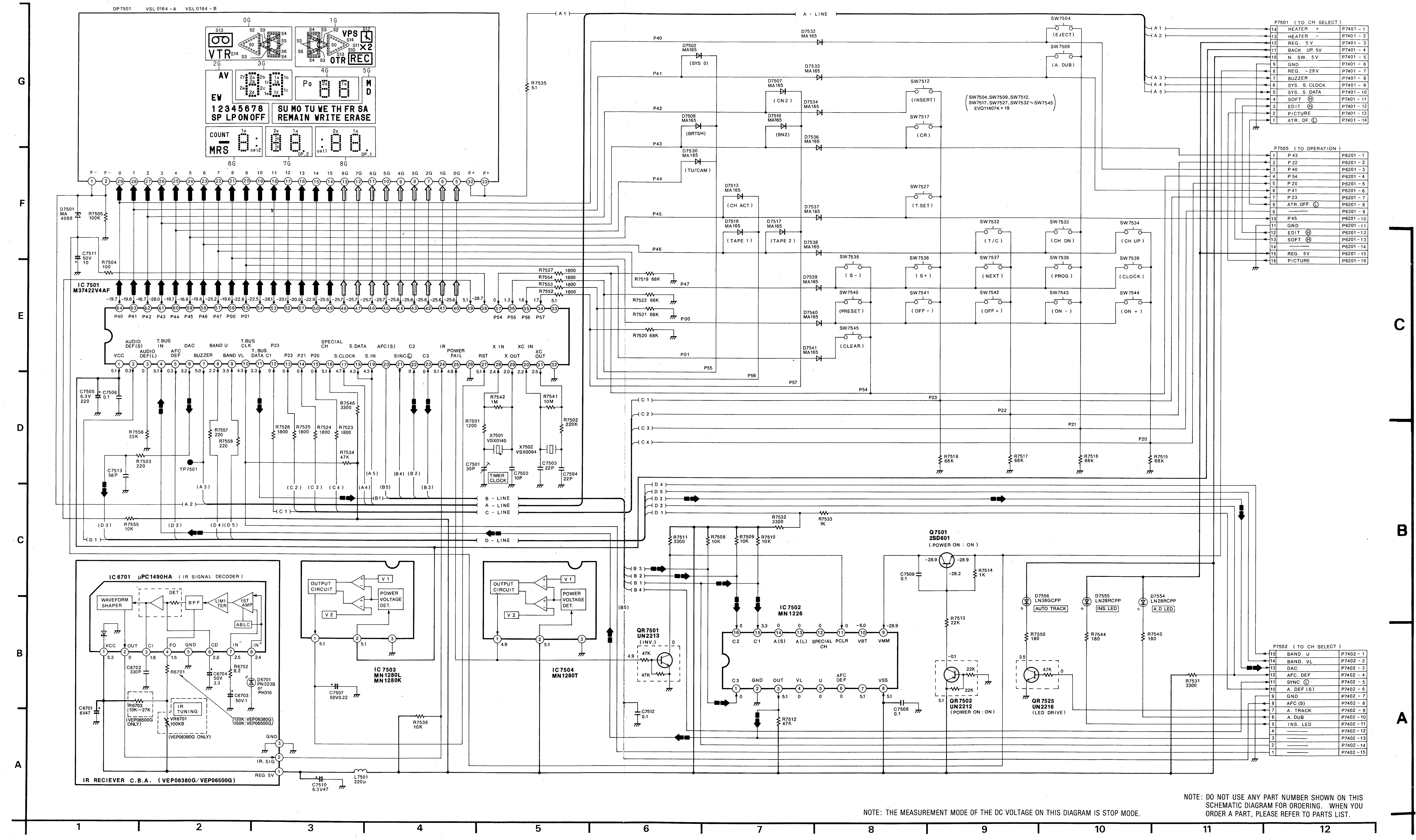
TIMER C.B.A.			
Transistor		**Test Point**	
Q7501	A-4	TP7501	A-3
Transistor & Resistor		**Adjustment**	
QR7501	A-2	C7501	B-1
QR7502	A-4	VR6701	C-5
QR7525	B-2	**Connector**	
Integrated Circuit		P7501	B-2
IC6701	C-3	P7502	B-2
IC6701	C-5	P7505	A-6
IC7501	A-2		
IC7502	B-4		
IC7503	B-3		
IC7504	B-2		

ADDRESS INFORMATION



3-26. TIMER SCHEMATIC DIAGRAM (NV-L25B)

SEGMENT CONTROL SIGNAL   GRID CONTROL SIGNAL   TUNE CONTROL SIGNAL



P7501 (TO CH SELECT)

14	HEATER +	P7401 – 1
13	HEATER –	P7401 – 2
12	REG. 5 V	P7401 – 3
11	BACK UP. 5V	P7401 – 4
10	N. SW. 5 V	P7401 – 5
9	GND	P7401 – 6
8	REG. –29 V	P7401 – 7
7	BUZZER	P7401 – 8
6	SYS. S. CLOCK	P7401 – 9
5	SYS. S. DATA	P7401 – 10
4	SOFT Ⓗ	P7401 – 11
3	EDIT Ⓗ	P7401 – 12
2	PICTURE	P7401 – 13
1	ATR. DF. Ⓛ	P7401 – 14

P7505 (TO OPERATION)

1	P 43	P6201 – 1
2	P 22	P6201 – 2
3	P 40	P6201 – 3
4	P 54	P6201 – 4
5	P 20	P6201 – 5
6	P 41	P6201 – 6
7	P 23	P6201 – 7
8	ATR.OFF. Ⓛ	P6201 – 8
9	———	P6201 – 9
10	P 45	P6201 – 10
11	GND	P6201 – 11
12	EDIT Ⓗ	P6201 – 12
13	SOFT Ⓗ	P6201 – 13
14	———	P6201 – 14
15	REG. 5V	P6201 – 15
16	PICTURE	P6201 – 16

P7502 (TO CH SELECT)

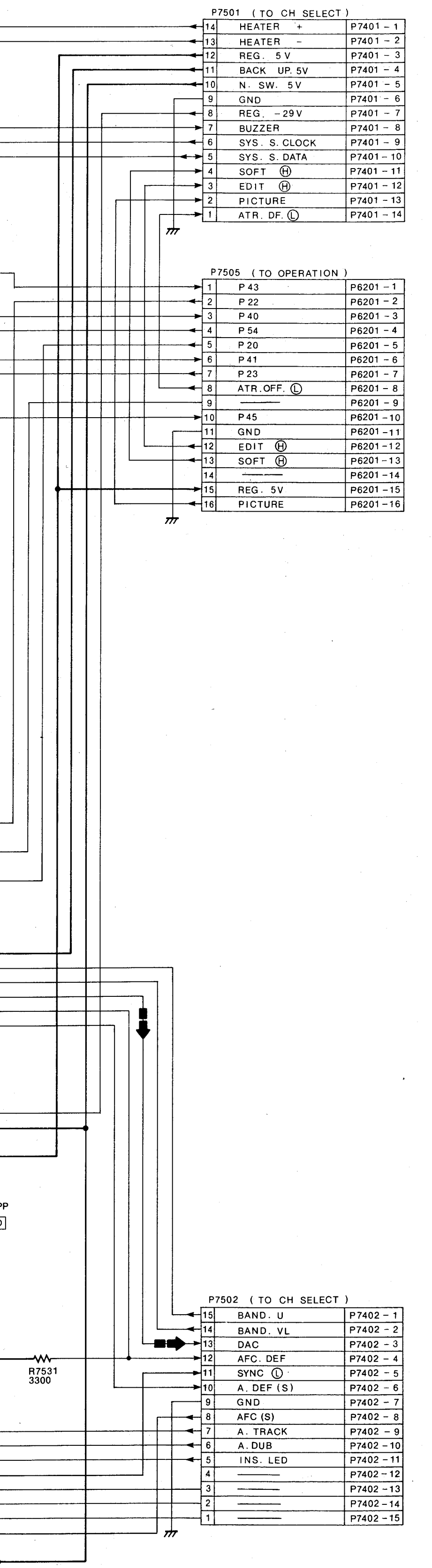
15	BAND. U	P7402 – 1
14	BAND. VL	P7402 – 2
13	DAC	P7402 – 3
12	AFC. DEF	P7402 – 4
11	SYNC Ⓛ	P7402 – 5
10	A. DEF (S)	P7402 – 6
9	GND	P7402 – 7
8	AFC (S)	P7402 – 8
7	A. TRACK	P7402 – 9
6	A. DUB	P7402 – 10
5	INS. LED	P7402 – 11
4	———	P7402 – 12
3	———	P7402 – 13
2	———	P7402 – 14
1	———	P7402 – 15

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
TIMER Section

NAL



P7501 (TO CH SELECT)

14	HEATER +	P7401 – 1
13	HEATER –	P7401 – 2
12	REG. 5 V	P7401 – 3
11	BACK UP. 5V	P7401 – 4
10	N. SW. 5 V	P7401 – 5
9	GND	P7401 – 6
8	REG. –29 V	P7401 – 7
7	BUZZER	P7401 – 8
6	SYS. S. CLOCK	P7401 – 9
5	SYS. S. DATA	P7401 – 10
4	SOFT Ⓗ	P7401 – 11
3	EDIT Ⓗ	P7401 – 12
2	PICTURE	P7401 – 13
1	ATR. DF. Ⓛ	P7401 – 14

P7505 (TO OPERATION)

1	P 43	P6201 – 1
2	P 22	P6201 – 2
3	P 40	P6201 – 3
4	P 54	P6201 – 4
5	P 20	P6201 – 5
6	P 41	P6201 – 6
7	P 23	P6201 – 7
8	ATR. OFF. Ⓛ	P6201 – 8
9	———	P6201 – 9
10	P 45	P6201 – 10
11	GND	P6201 – 11
12	EDIT Ⓗ	P6201 – 12
13	SOFT Ⓗ	P6201 – 13
14	———	P6201 – 14
15	REG. 5V	P6201 – 15
16	PICTURE	P6201 – 16

P7502 (TO CH SELECT)

15	BAND. U	P7402 – 1
14	BAND. VL	P7402 – 2
13	DAC	P7402 – 3
12	AFC. DEF	P7402 – 4
11	SYNC Ⓛ	P7402 – 5
10	A. DEF (S)	P7402 – 6
9	GND	P7402 – 7
8	AFC (S)	P7402 – 8
7	A. TRACK	P7402 – 9
6	A. DUB	P7402 – 10
5	INS. LED	P7402 – 11
4	———	P7402 – 12
3	———	P7402 – 13
2	———	P7402 – 14
1	———	P7402 – 15

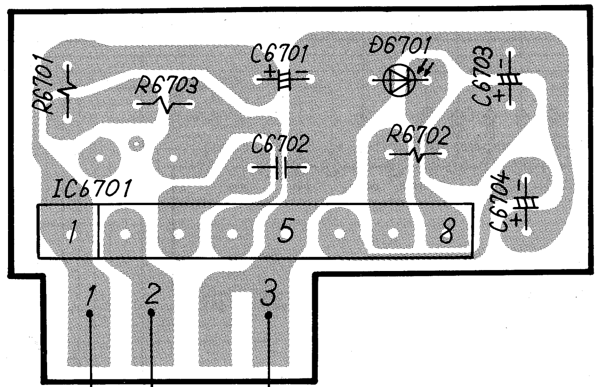
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-27. TIMER C.B.A. (VEP07544C: NV-L25B)

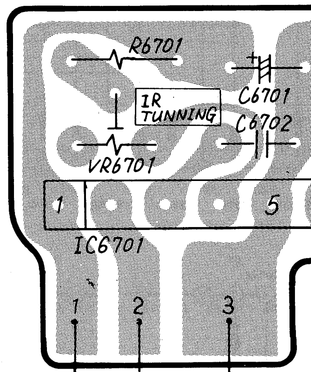
TIMER C.B.A.			
Transistor		**Test Point**	
Q7501	B-4	TP7501	B-4
Transistor & Resistor		**Adjustment**	
QR7501	A-2	C7501	A-3
QR7502	B-4	VR6701	C-5
QR7525	B-2	**Connector**	
Integrated Circuit		P7501	B-2
IC6701	C-4	P7502	B-2
IC6701	C-5	P7505	A-6
IC7501	B-2		
IC7502	B-4		
IC7503	B-1		
IC7504	B-2		

ADDRESS INFORMATION

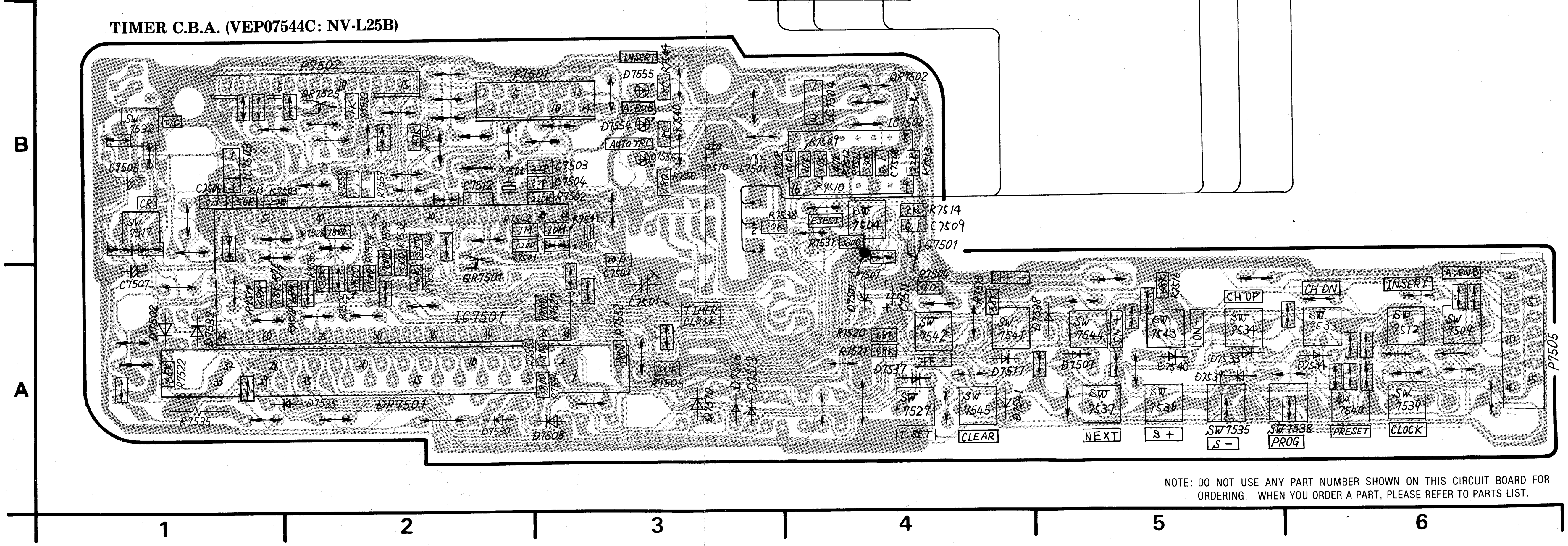
IR RECEIVER C.B.A. (VEP06500G)



IR RECEIVER C.B.A. (VEP06380G)

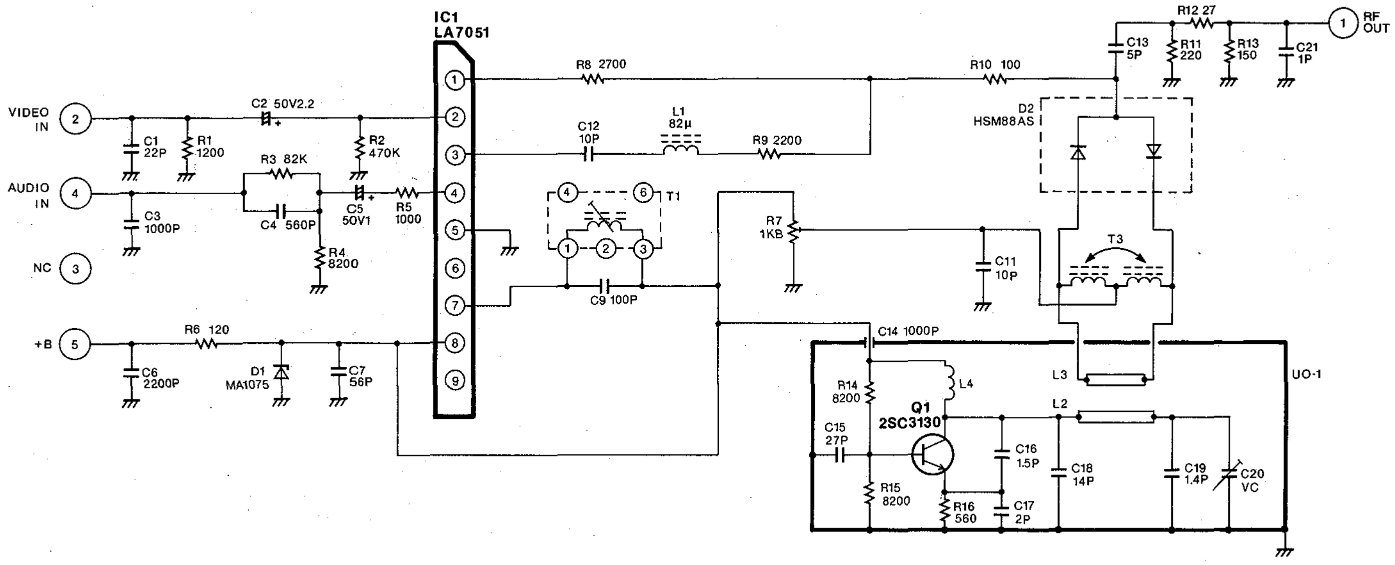


TIMER C.B.A. (VEP07544C: NV-L25B)

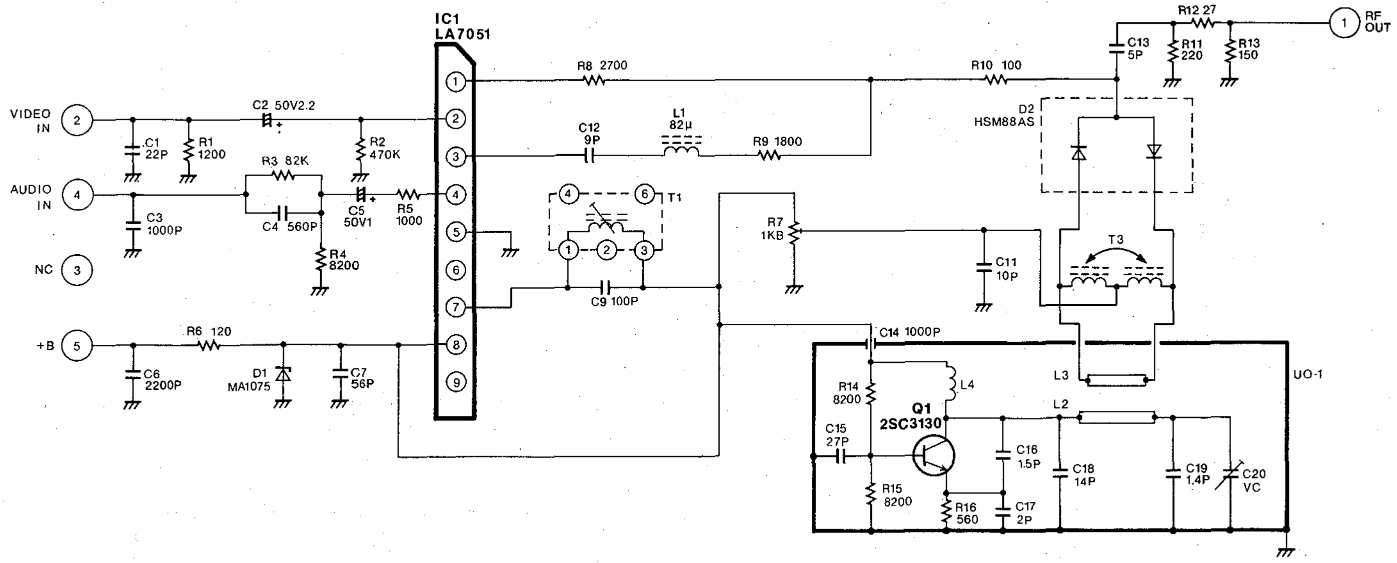


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS CIRCUIT BOARD FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-28. RF CONVERTER SCHEMATIC DIAGRAM (ENC17956: NV-L25EG)



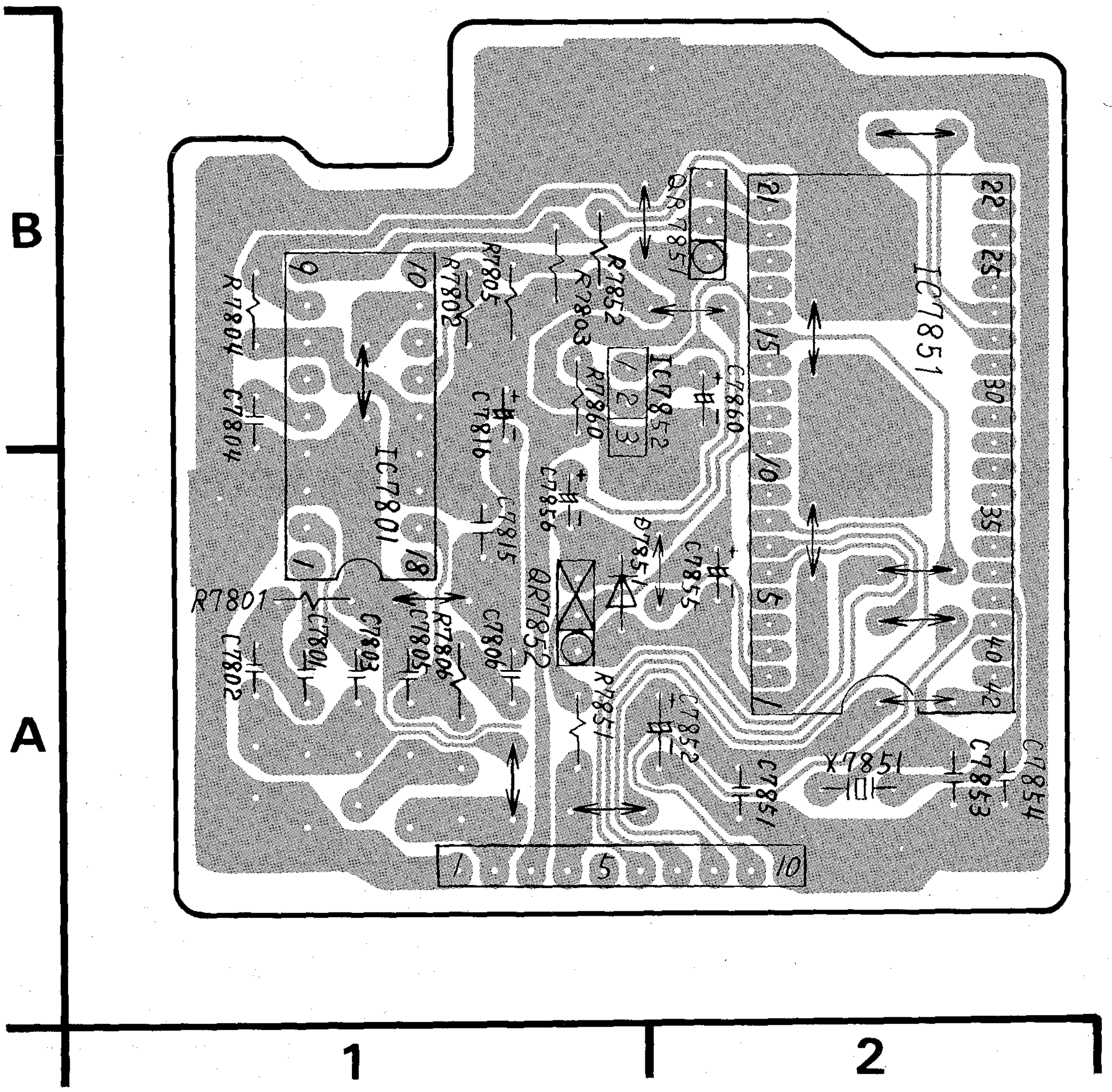
3-29. RF CONVERTER SCHEMATIC DIAGRAM (ENC17952: NV-L25B)



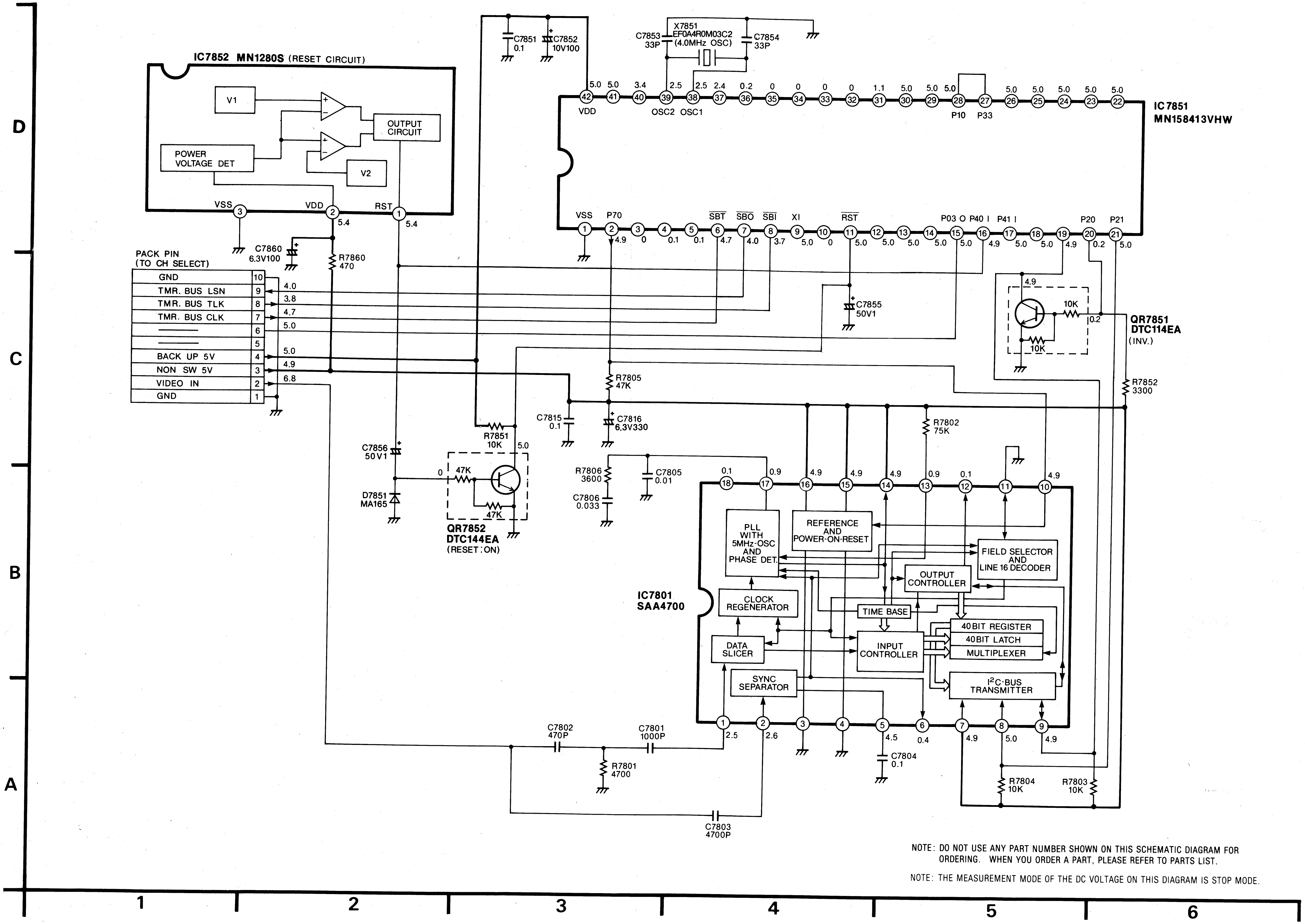
3-30. VPS PACK C.B.A. (VEP07538B: NV-L25EG)

VPS PACK C.B.A.	
Transistor & Resistor	
QR7851	B-2
QR7852	A-1
Integrated Circuit	
IC7801	A-1
IC7851	B-2
IC7852	B-2

ADDRESS INFORMATION



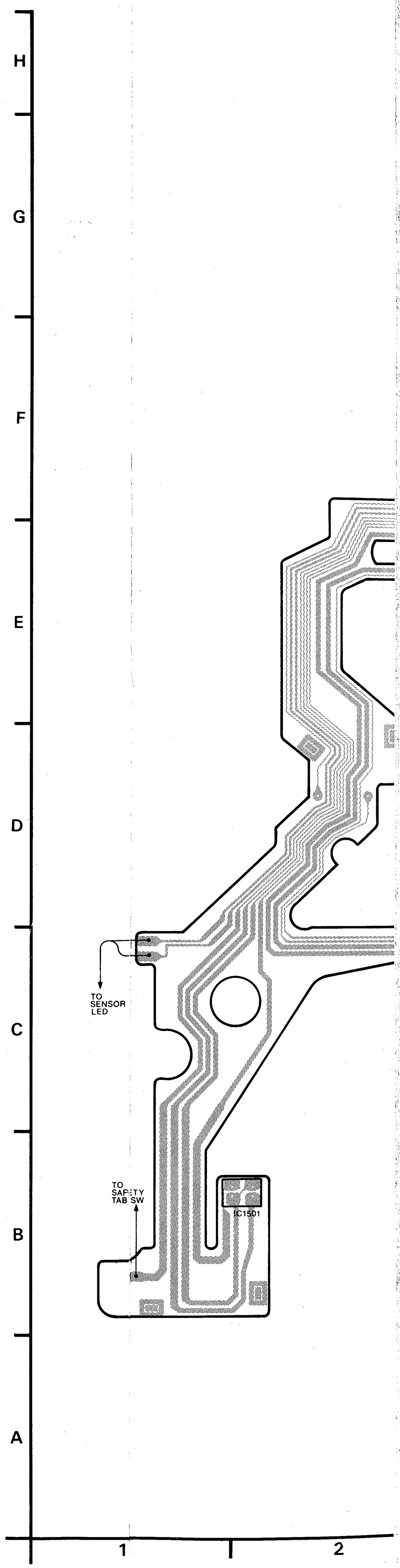
3-31. VPS PACK SCHEMATIC DIAGRAM (NV-L25EG)

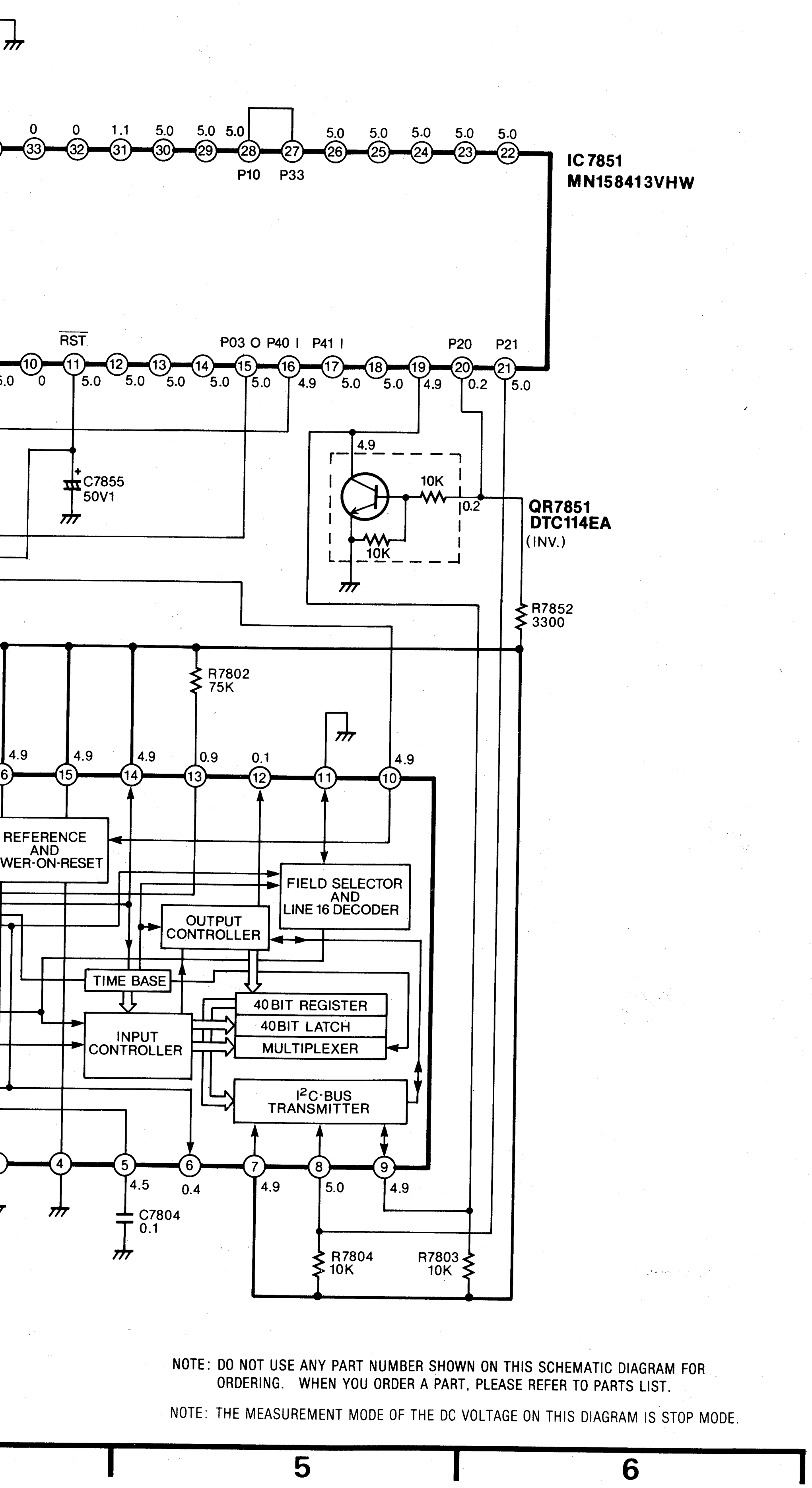


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-32. MAIN C.B.A. (V

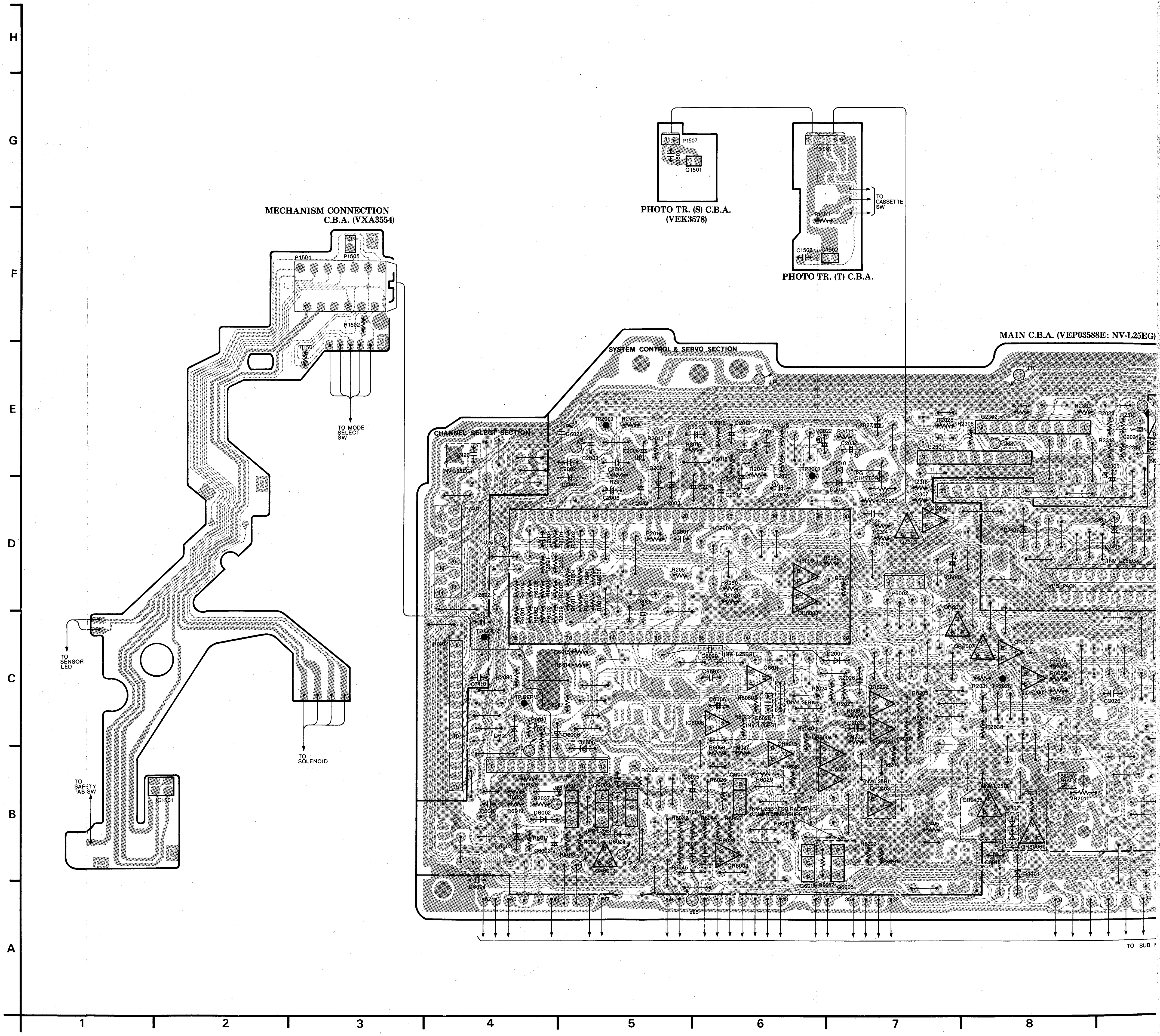


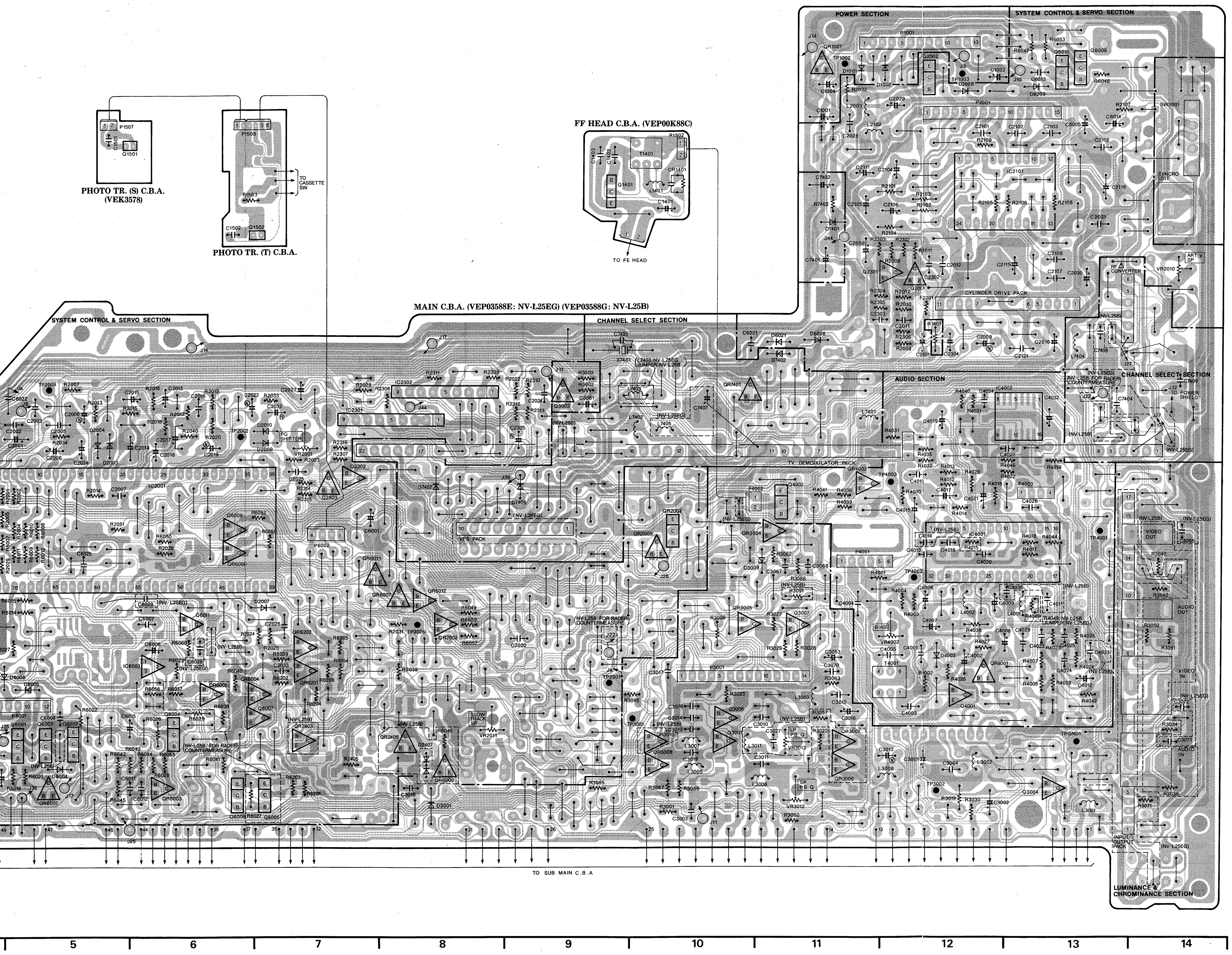


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-32. MAIN C.B.A. (VEP03588E: NV-L25EG) (VEP03588G: NV-L25B)





MAIN C.B.A. ADDRESS INFORMATION

POWER Section	
Transistor & Resistor	
QR1001	H-11
Test Point	
TP1002	H-11
TP1003	G-12
TPGND1	B-13
Connector	
P1001	H-12

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE Section	
Transistor	
Q3001	B-10
Q3003	E-9
Q3004	B-13
Q3006	B-10
Q3007	C-11
Transistor & Resistor	
QR3004	D-11
QR3005	C-10
QR3006	B-11
QR3007	B-11
QR3008	B-10
QR3010	B-10
Test Point	
TP3001	B-10
TP3002	B-12
Adjustment	
VR3012	B-11
VR3013	B-11
Connector	
P3001	C-10

ADDRESS INFORMATION

AUDIO Section	
Transistor	
Q1401	G-9
Q4001	B-12
Q4002	D-11
Transistor & Resistor	
QR4001	C-12
QR4002	D-11
Integrated Circuit	
IC4001	D-12
IC4002	E-13
Test Point	
TP4001	D-13
TP4002	C-12
TP4003	D-12
Adjustment	
VR4002	C-12
Connector	
P1502	G-10
P4001	D-11
P4002	D-11
P4003	D-13

ADDRESS INFORMATION

SYSTEM CONTROL & SERVO Section	
Transistor	
Q1501	G-6
Q1502	F-7
Q2001	F-12
Q2002	H-12
Q2301	F-11
Q2302	D-7
Q2303	D-7
Q6001	B-5
Q6002	B-5
Q6003	B-5
Q6004	B-6
Q6005	A-7
Q6006	A-6
Q6007	B-7
Q6008	H-13
Q6009	D-6
Q6010	H-13
Q6011	C-6
Transistor & Resistor	
QR2002	C-8
QR2004	D-10
QR2005	D-10
QR2403	B-7
QR2405	B-8
QR6002	B-5
QR6003	B-6
QR6004	B-7
QR6005	B-6
QR6006	B-8
QR6007	C-8
QR6008	D-6
QR6011	D-7
QR6012	C-8
QR6201	C-7
QR6202	C-7
Integrated Circuit	
IC1501	B-2
IC2001	D-6
IC2101	G-13
IC2301	E-7
IC2302	E-8
IC6003	C-6
Test Point	
TP2001	C-9
TP2002	E-6
TP2009	E-5
TP2026	C-8
TPSERV	C-4
TPGND2	C-4
Adjustment	
VR2001	D-7
VR2009	E-14
VR2010	F-14
VR2011	B-8
Connector	
P1504	F-3
P1505	F-3
P1507	G-5
P1508	G-6
P2001	G-12
P6001	B-5
P6002	D-7

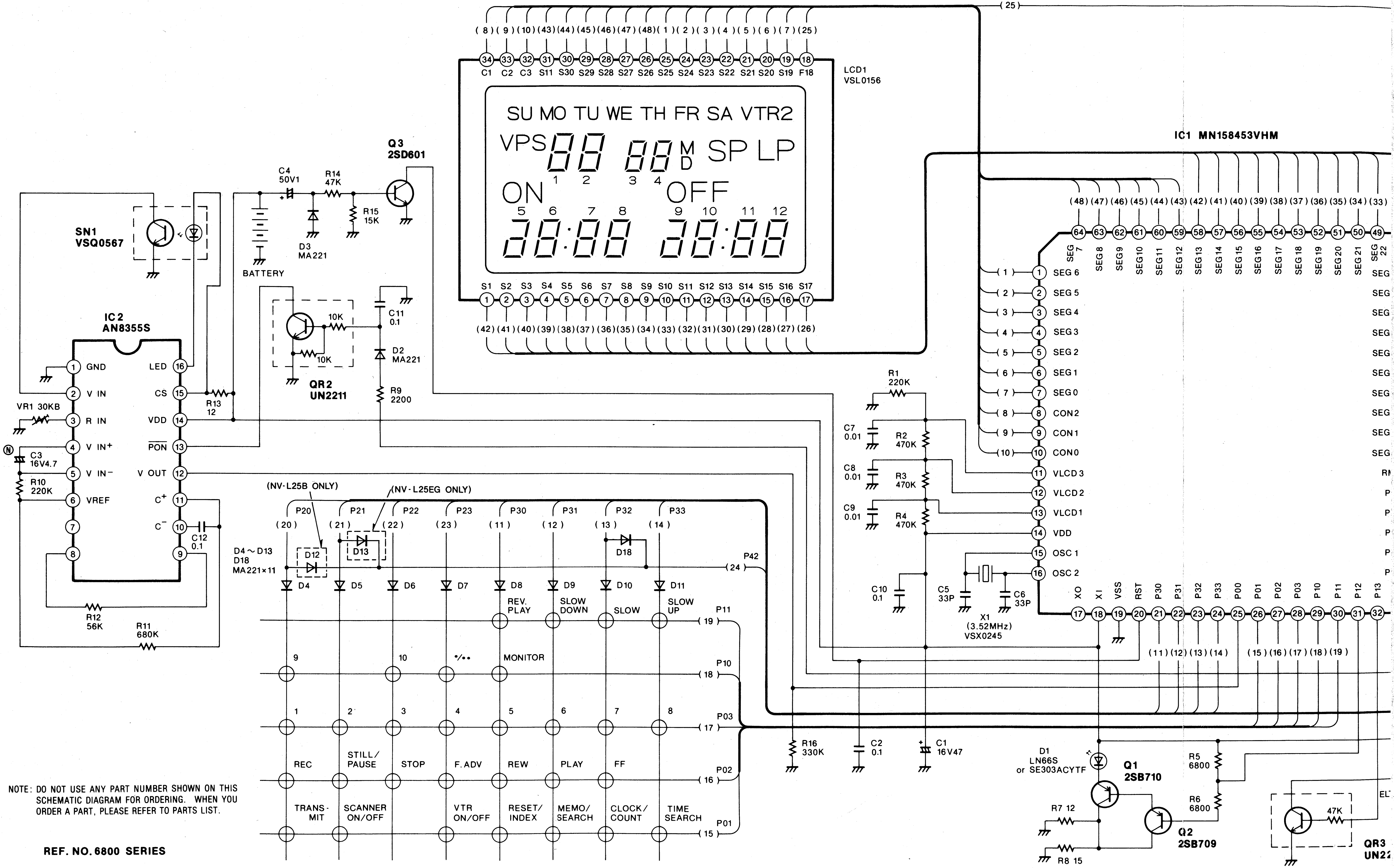
ADDRESS INFORMATION

CHANNEL SELECT Section	
Transistor & Resistor	
QR7401	E-10
Connector	
P7401	D-4
P7402	C-4

ADDRESS INFORMATION

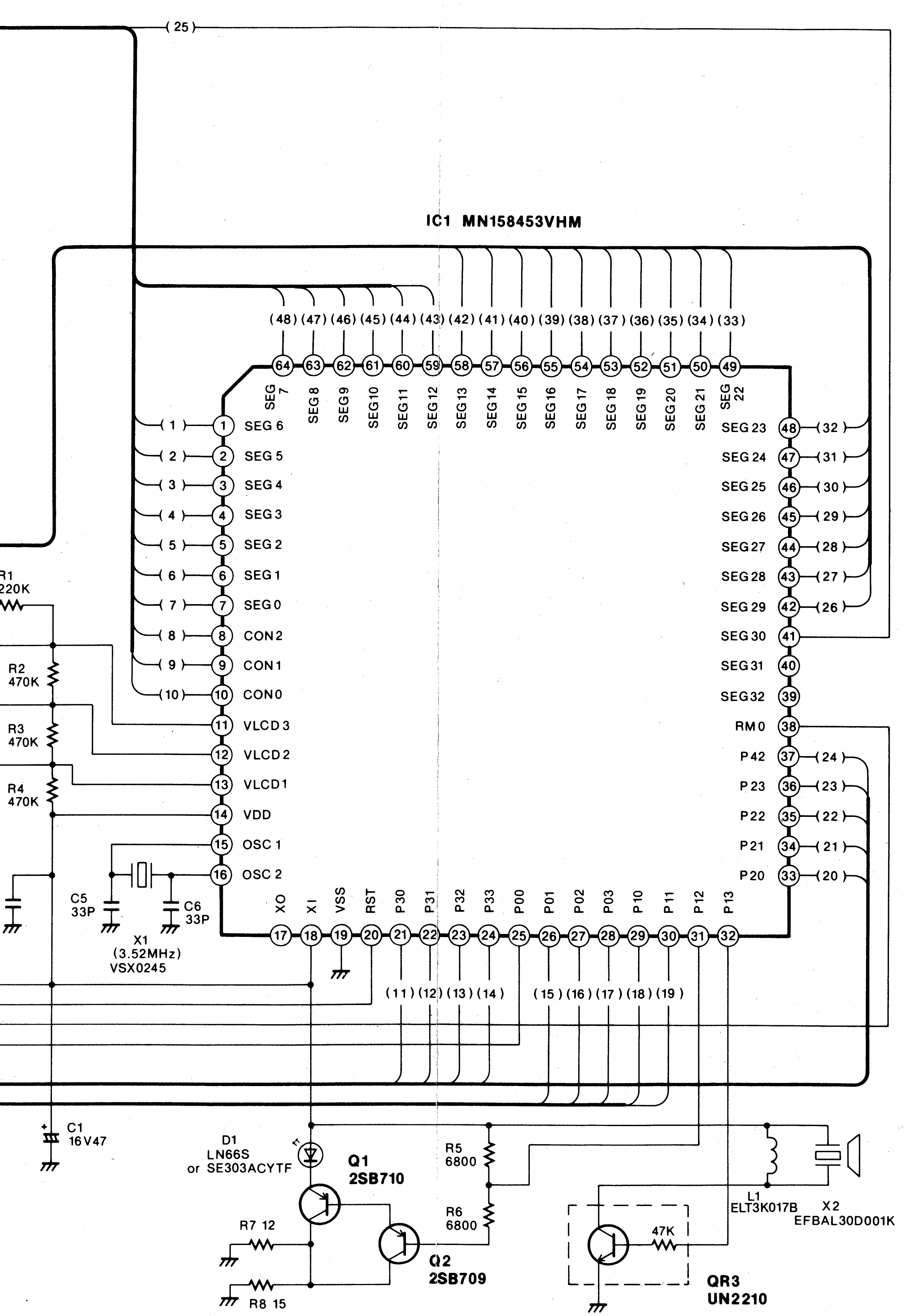
Next Page:
REMOTE CONTROLLER Section

3-33. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) SCHEMATIC DIAGRAM
— UNIT NO.: VEQ0936 (NV-L25EG), VEQ0935 (NV-L25B) —

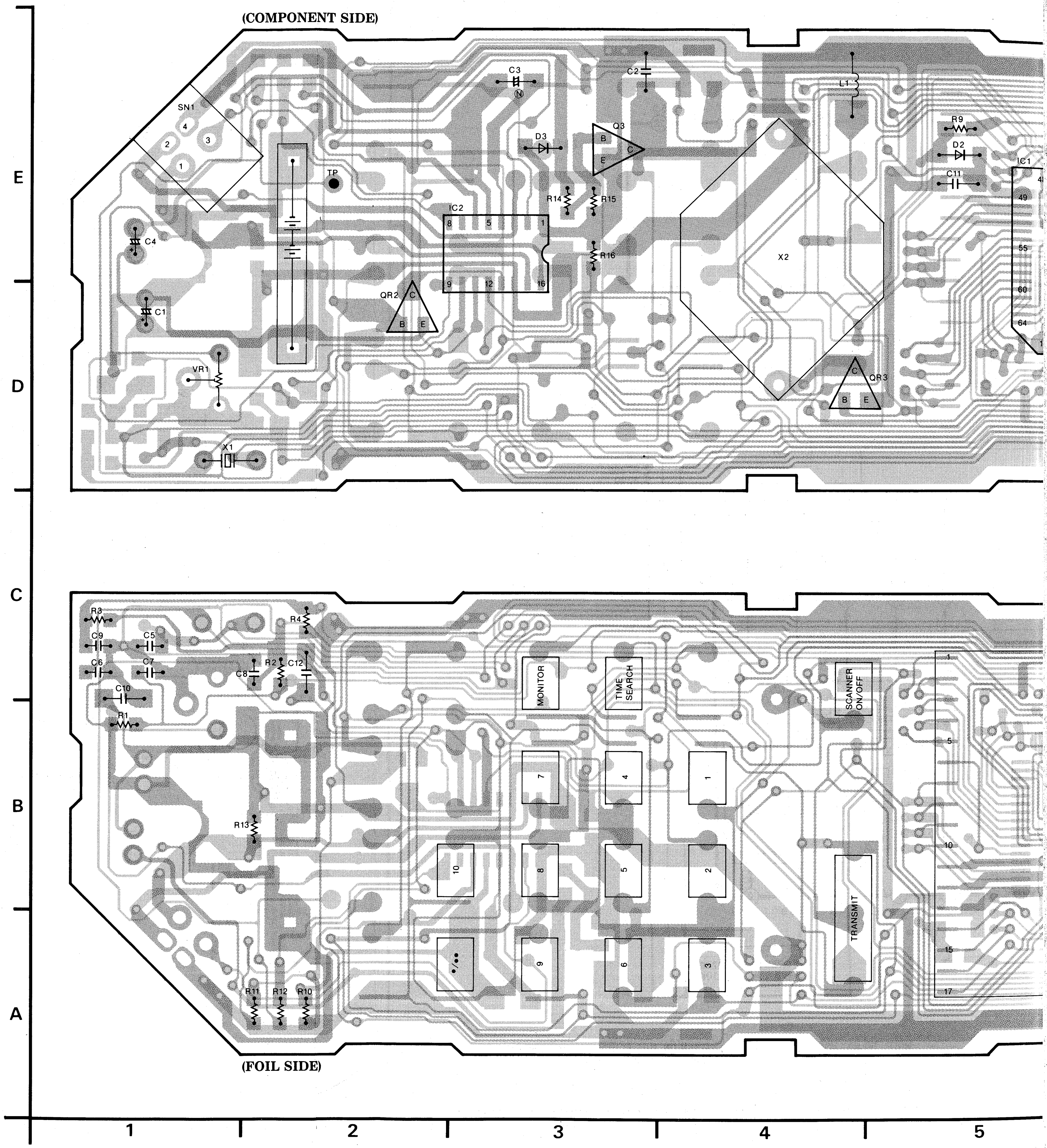


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

REF. NO. 6800 SERIES

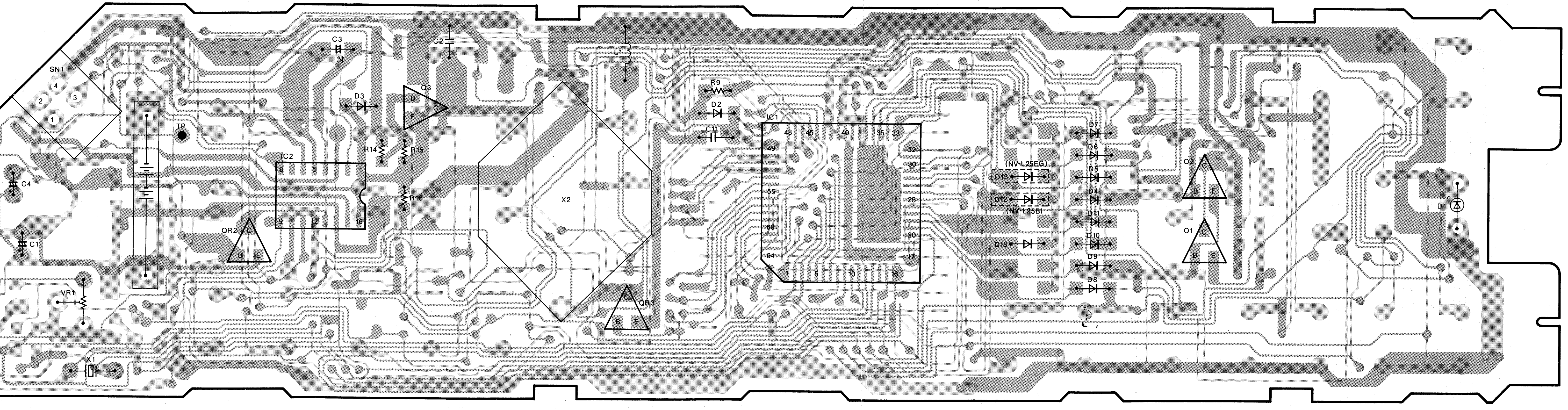


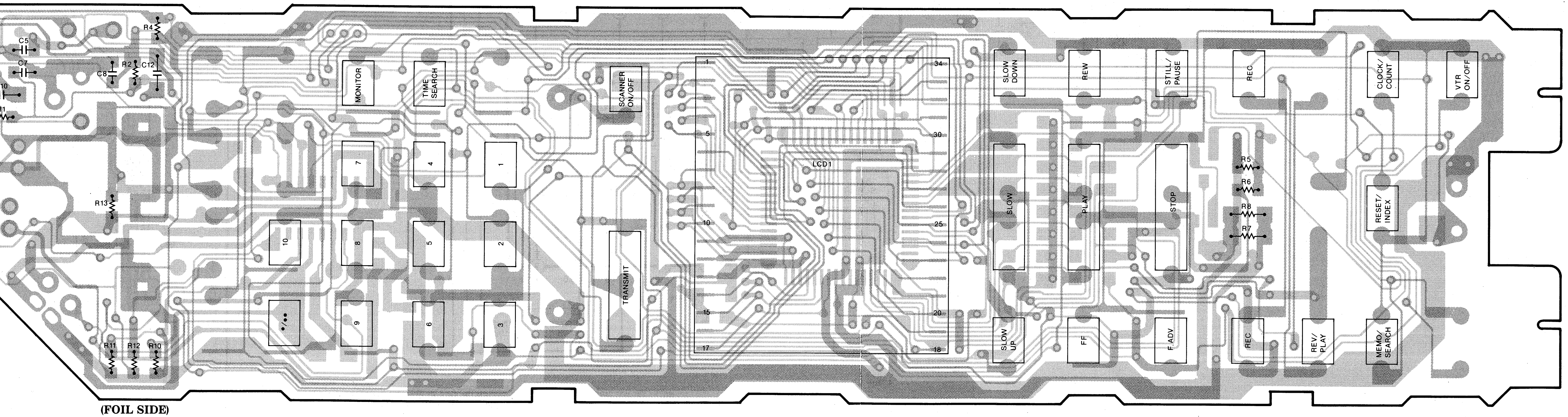
3-34. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) C.B.A. (VEP66079G: NV-L



IOTE CONTROLLER (BUILD IN DIGITAL SCANNER) C.B.A. (VEP66079G: NV-L25EG) (VEP66079F: NV-L25B)

(COMPONENT SIDE)



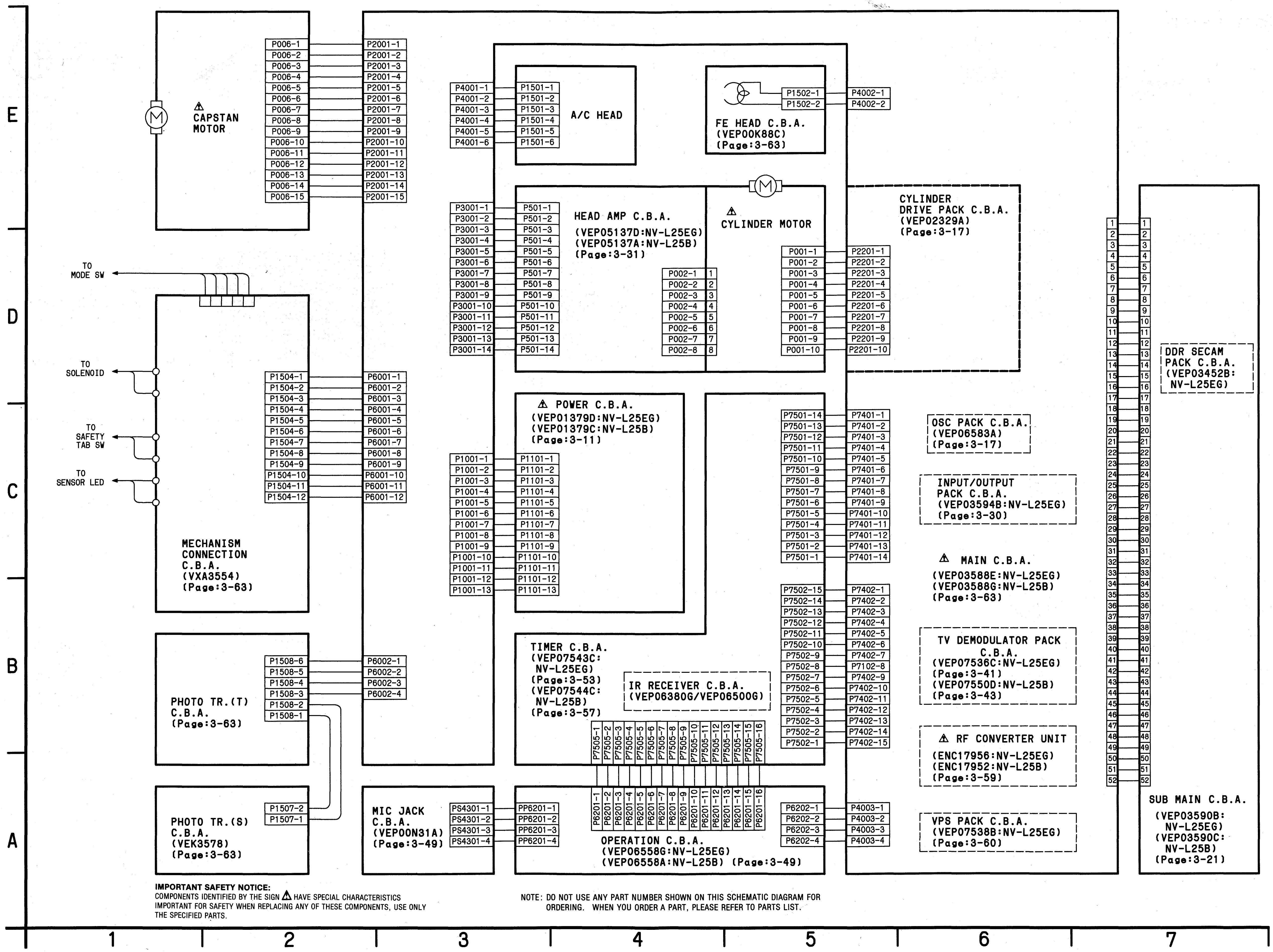


(FOIL SIDE)

REF. NO. 6800 SERIES

1 2 3 4 5 6 7 8 9

3-35. INTERCONNECTION SCHEMATIC DIAGRAM


E
D
C
B
A
1
2
3
4
5
6
7
⚠ CAPSTAN MOTOR
P006-1 P006-2 P006-3 P006-4 P006-5 P006-6 P006-7 P006-8 P006-9 P006-10 P006-11 P006-12 P006-13 P006-14 P006-15
P2001-1 P2001-2 P2001-3 P2001-4 P2001-5 P2001-6 P2001-7 P2001-8 P2001-9 P2001-10 P2001-11 P2001-12 P2001-13 P2001-14 P2001-15
P4001-1 P4001-2 P4001-3 P4001-4 P4001-5 P4001-6
P1501-1 P1501-2 P1501-3 P1501-4 P1501-5 P1501-6
A/C HEAD
P1502-1 P1502-2
P4002-1 P4002-2
FE HEAD C.B.A. (VEP00K88C) (Page:3-63)
P3001-1 P3001-2 P3001-3 P3001-4 P3001-5 P3001-6 P3001-7 P3001-8 P3001-9 P3001-10 P3001-11 P3001-12 P3001-13 P3001-14
P501-1 P501-2 P501-3 P501-4 P501-5 P501-6 P501-7 P501-8 P501-9 P501-10 P501-11 P501-12 P501-13 P501-14
HEAD AMP C.B.A. (VEP05137D:NV-L25EG) (VEP05137A:NV-L25B) (Page:3-31)
P002-1 P002-2 P002-3 P002-4 P002-5 P002-6 P002-7 P002-8
1 2 3 4 5 6 7 8
⚠ CYLINDER MOTOR
P001-1 P001-2 P001-3 P001-4 P001-5 P001-6 P001-7 P001-8 P001-9 P001-10
P2201-1 P2201-2 P2201-3 P2201-4 P2201-5 P2201-6 P2201-7 P2201-8 P2201-9 P2201-10
CYLINDER DRIVE PACK C.B.A. (VEP02329A) (Page:3-17)
TO MODE SW
TO SOLENOID
TO SAFETY TAB SW
TO SENSOR LED
MECHANISM CONNECTION C.B.A. (VXA3554) (Page:3-63)
P1504-1 P1504-2 P1504-3 P1504-4 P1504-5 P1504-6 P1504-7 P1504-8 P1504-9 P1504-10 P1504-11 P1504-12
P6001-1 P6001-2 P6001-3 P6001-4 P6001-5 P6001-6 P6001-7 P6001-8 P6001-9 P6001-10 P6001-11 P6001-12
⚠ POWER C.B.A. (VEP01379D:NV-L25EG) (VEP01379C:NV-L25B) (Page:3-11)
P1001-1 P1001-2 P1001-3 P1001-4 P1001-5 P1001-6 P1001-7 P1001-8 P1001-9 P1001-10 P1001-11 P1001-12 P1001-13
P1101-1 P1101-2 P1101-3 P1101-4 P1101-5 P1101-6 P1101-7 P1101-8 P1101-9 P1101-10 P1101-11 P1101-12 P1101-13
P7501-14 P7501-13 P7501-12 P7501-11 P7501-10 P7501-9 P7501-8 P7501-7 P7501-6 P7501-5 P7501-4 P7501-3 P7501-2 P7501-1
P7401-1 P7401-2 P7401-3 P7401-4 P7401-5 P7401-6 P7401-7 P7401-8 P7401-9 P7401-10 P7401-11 P7401-12 P7401-13 P7401-14
P7502-15 P7502-14 P7502-13 P7502-12 P7502-11 P7502-10 P7502-9 P7502-8 P7502-7 P7502-6 P7502-5 P7502-4 P7502-3 P7502-2 P7502-1
P7402-1 P7402-2 P7402-3 P7402-4 P7402-5 P7402-6 P7402-7 P7102-8 P7402-9 P7402-10 P7402-11 P7402-12 P7402-13 P7402-14 P7402-15
OSC PACK C.B.A. (VEP06583A) (Page:3-17)
INPUT/OUTPUT PACK C.B.A. (VEP03594B:NV-L25EG) (Page:3-30)
⚠ MAIN C.B.A. (VEP03588E:NV-L25EG) (VEP03588G:NV-L25B) (Page:3-63)
TV DEMODULATOR PACK C.B.A. (VEP07536C:NV-L25EG) (Page:3-41) (VEP07550D:NV-L25B) (Page:3-43)
⚠ RF CONVERTER UNIT (ENC17956:NV-L25EG) (ENC17952:NV-L25B) (Page:3-59)
VPS PACK C.B.A. (VEP07538B:NV-L25EG) (Page:3-60)
DDR SECAM PACK C.B.A. (VEP03452B: NV-L25EG)
1–52
1–52
SUB MAIN C.B.A. (VEP03590B: NV-L25EG) (VEP03590C: NV-L25B) (Page:3-21)
PHOTO TR.(T) C.B.A. (Page:3-63)
P1508-6 P1508-5 P1508-4 P1508-3 P1508-2 P1508-1
P6002-1 P6002-2 P6002-3 P6002-4
PHOTO TR.(S) C.B.A. (VEK3578) (Page:3-63)
P1507-2 P1507-1
TIMER C.B.A. (VEP07543C: NV-L25EG) (Page:3-53) (VEP07544C: NV-L25B) (Page:3-57)
IR RECEIVER C.B.A. (VEP06380G/VEP06500G)
P7505-1 P7505-2 P7505-3 P7505-4 P7505-5 P7505-6 P7505-7 P7505-8 P7505-9 P7505-10 P7505-11 P7505-12 P7505-13 P7505-14 P7505-15 P7505-16
P6201-1 P6201-2 P6201-3 P6201-4 P6201-5 P6201-6 P6201-7 P6201-8 P6201-9 P6201-10 P6201-11 P6201-12 P6201-13 P6201-14 P6201-15 P6201-16
MIC JACK C.B.A. (VEP00N31A) (Page:3-49)
PS4301-1 PS4301-2 PS4301-3 PS4301-4
PP6201-1 PP6201-2 PP6201-3 PP6201-4
OPERATION C.B.A. (VEP06558G:NV-L25EG) (VEP06558A:NV-L25B) (Page:3-49)
P6202-1 P6202-2 P6202-3 P6202-4
P4003-1 P4003-2 P4003-3 P4003-4

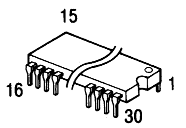
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
INTERCONNECTION Section

3-36. ICs & TRs INFORMATION

GENERAL CIRCUIT PARTS



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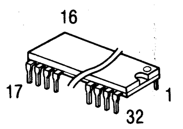

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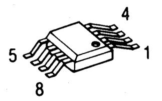

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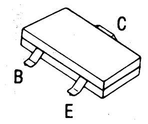

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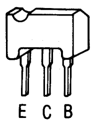
2SD1328
2SD601
2SD602



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2SD973
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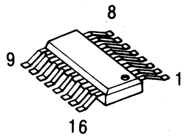

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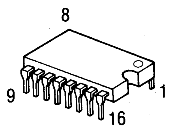

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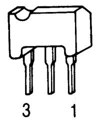

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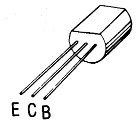

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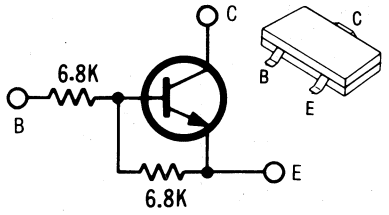

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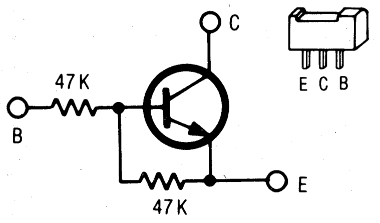

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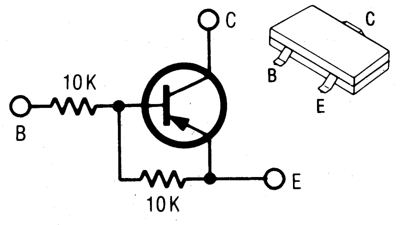

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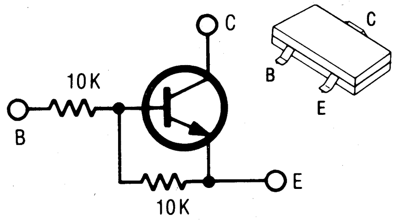

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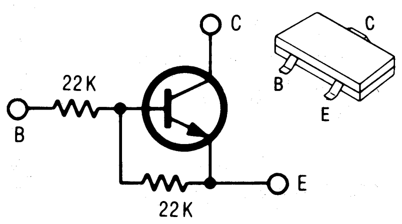

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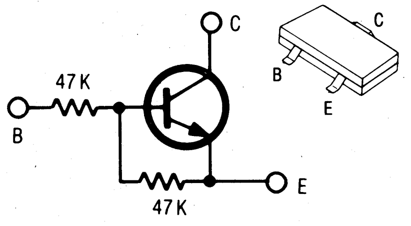

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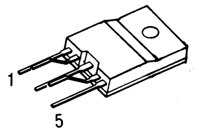
POWER Section



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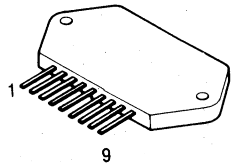

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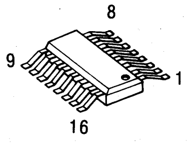
TV DEMODULATOR PACK



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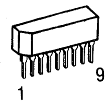

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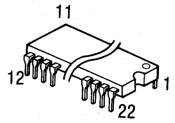
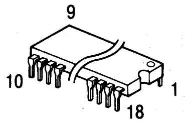
INPUT/OUTPUT PACK (NV-L25EG)



LA7150

Back Page:
INTERCONNECTION Section

VPS PACK (NV-L25EG)



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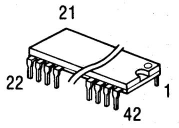

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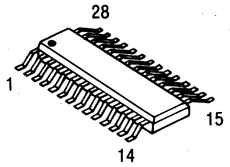

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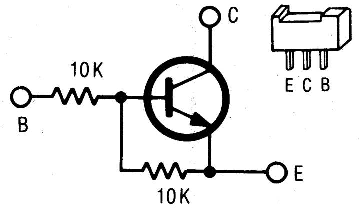

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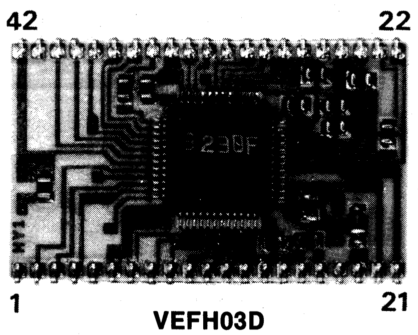
SUB MAIN



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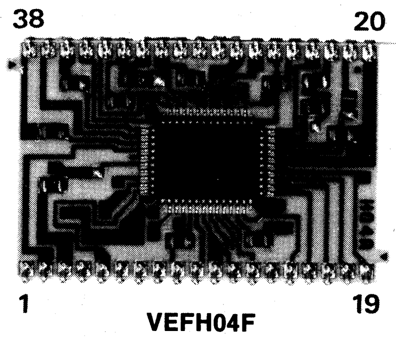

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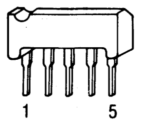

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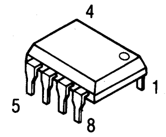

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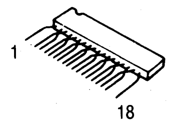

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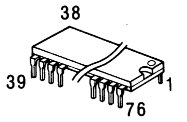
SERVO & SYSTEM CONTROL Section



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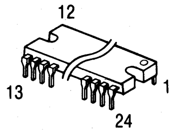

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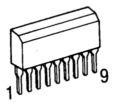

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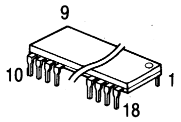

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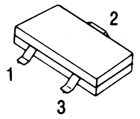

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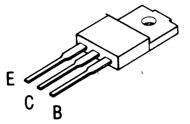

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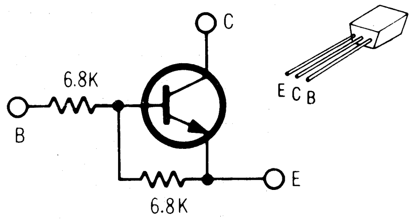

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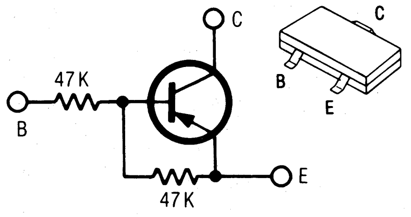

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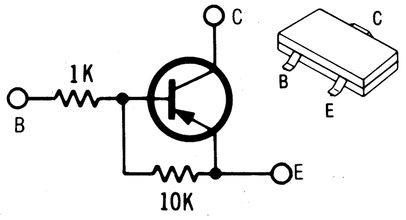

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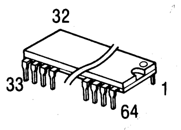

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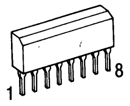

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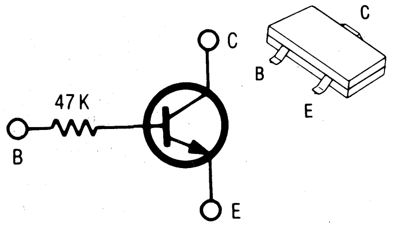

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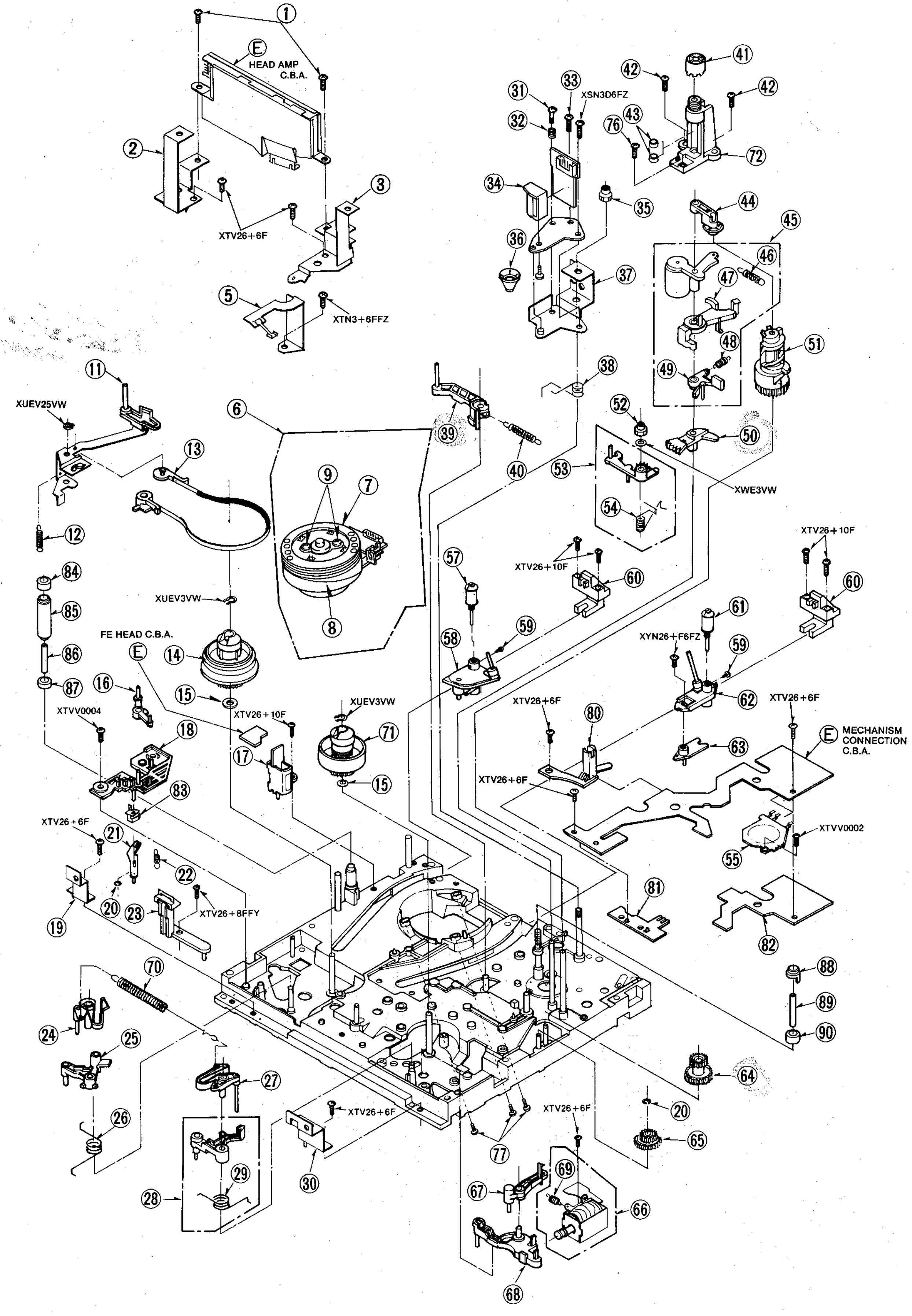
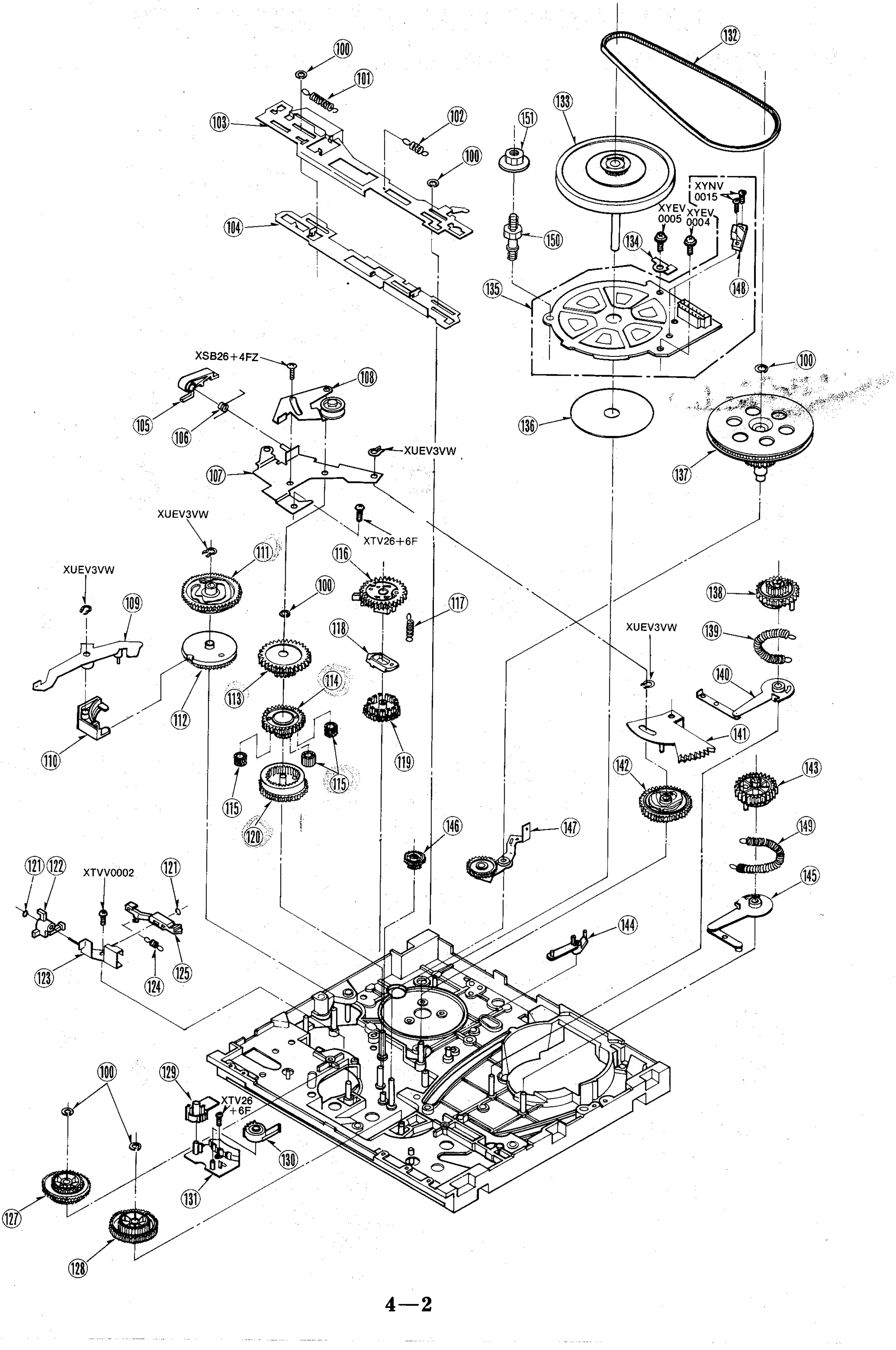
SECTION 4
EXPLODED VIEWS & PARTS LIST

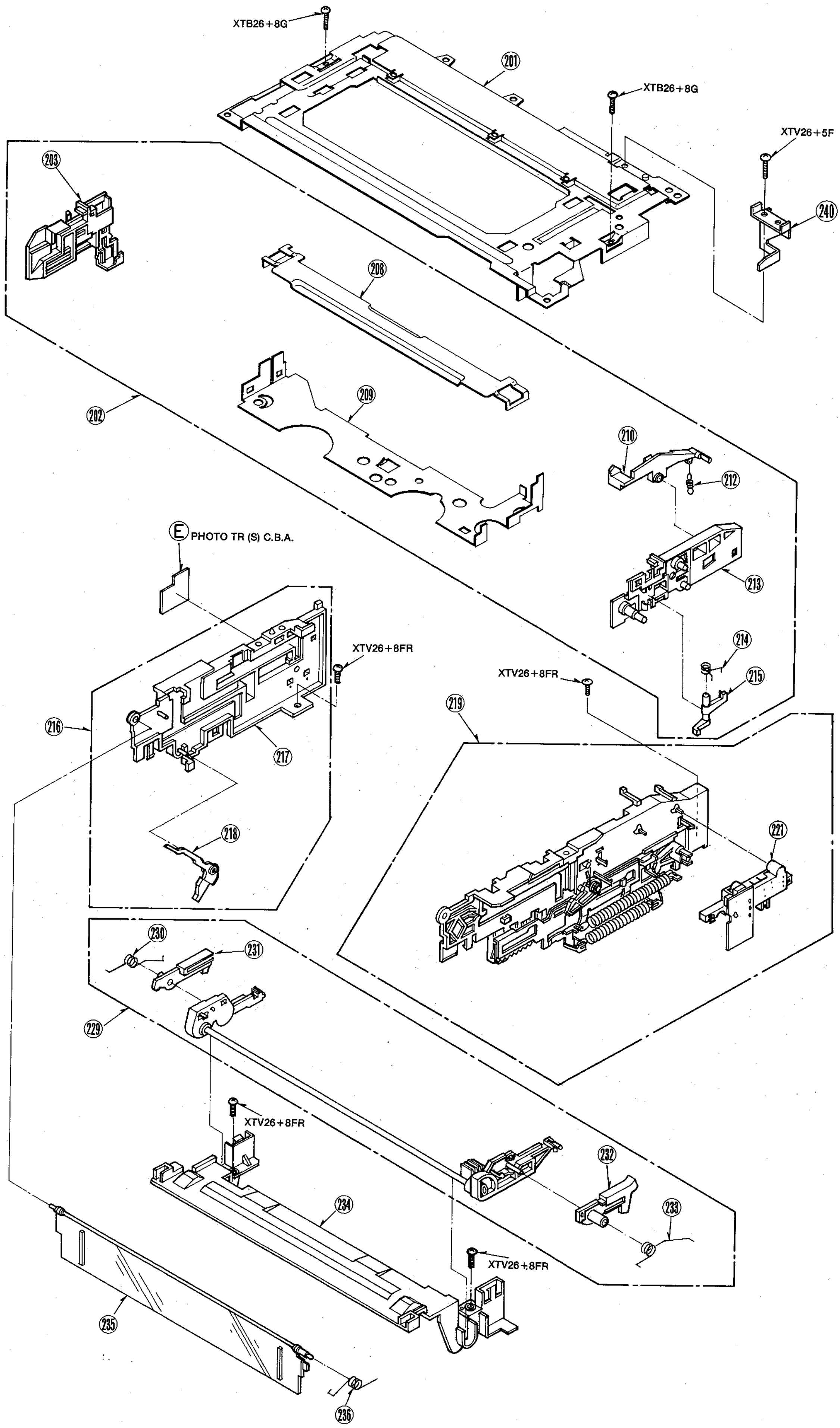
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)



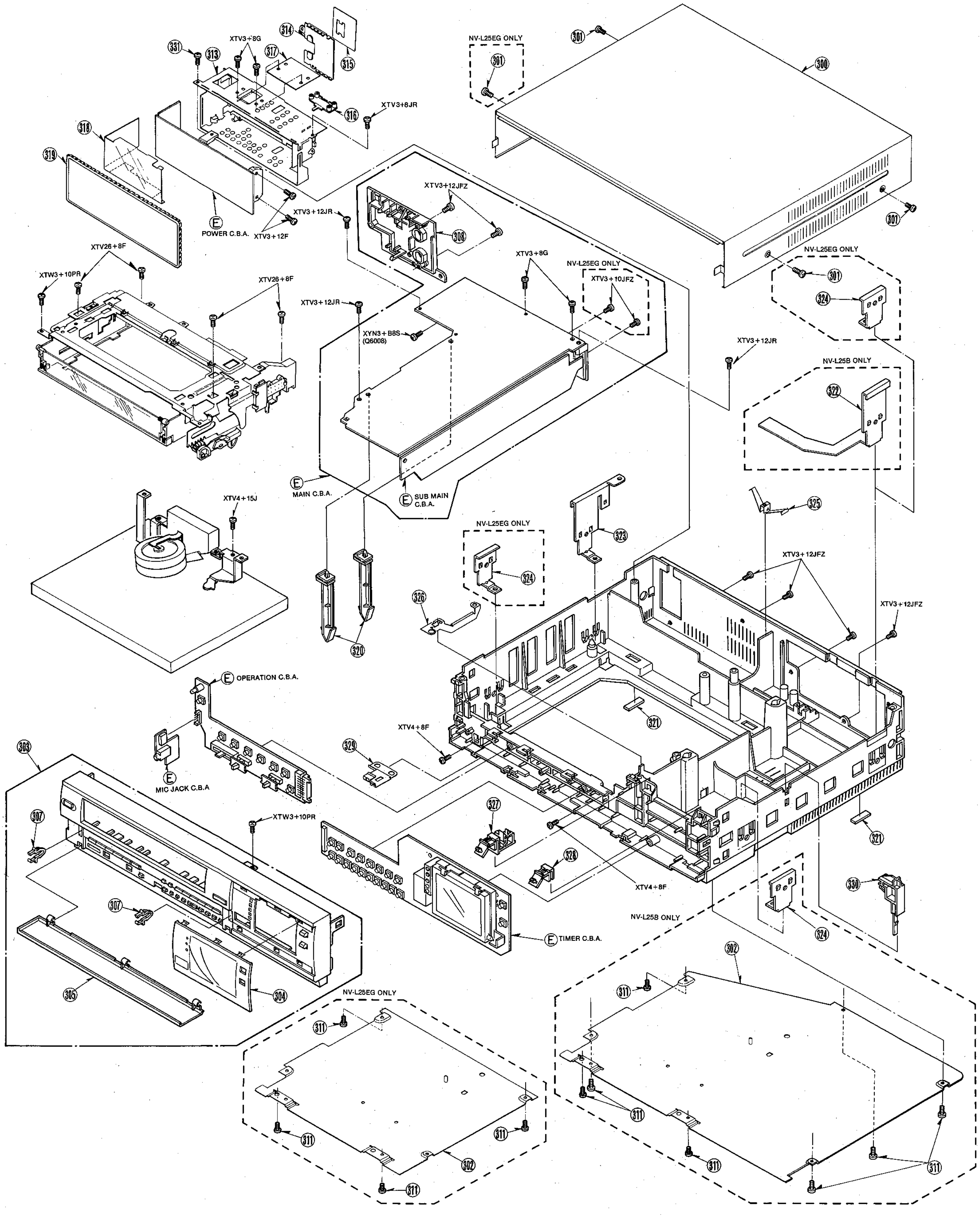
❷ CHASSIS PARTS SECTION (2)



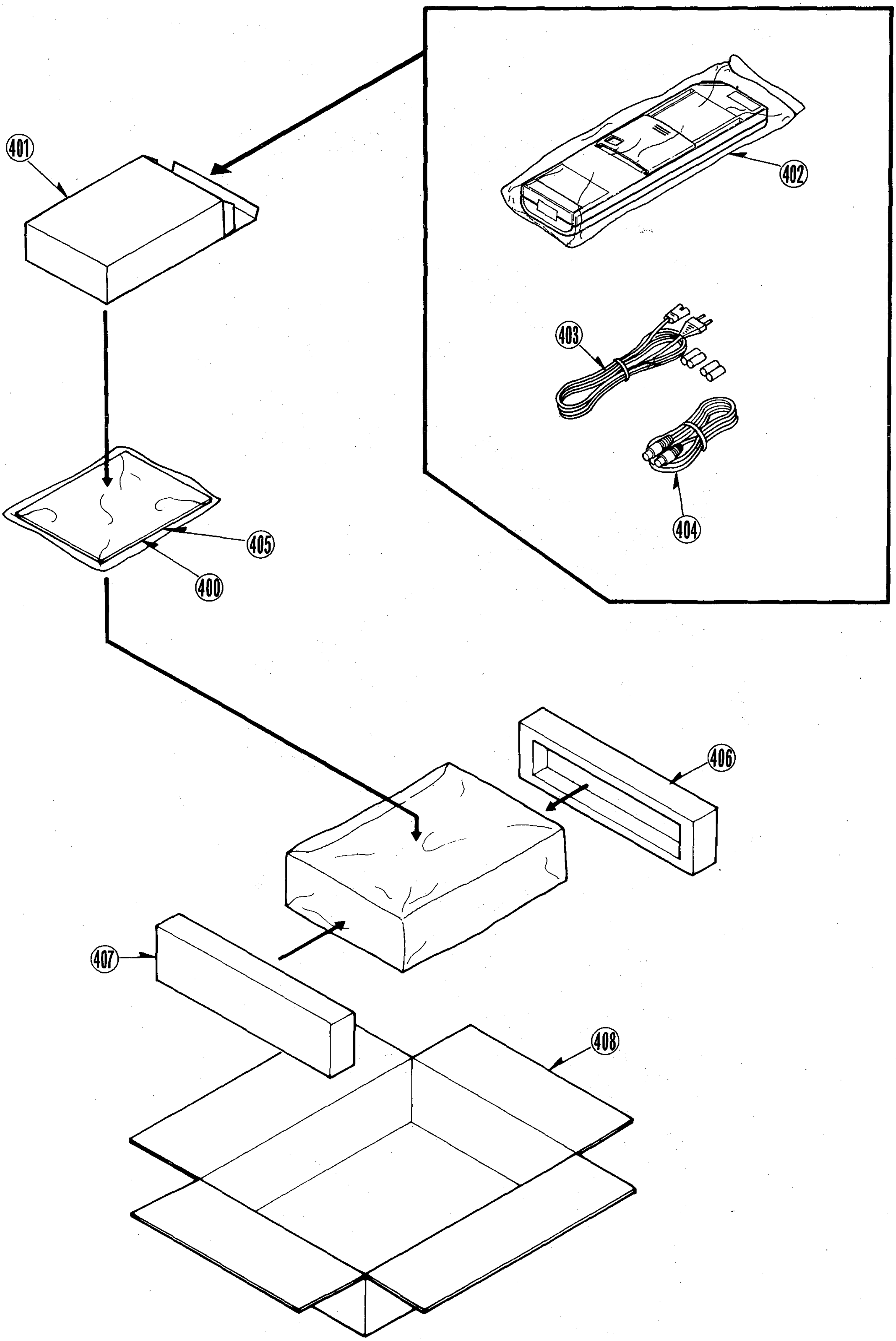
❸ CASSETTE UP MECHANISM SECTION



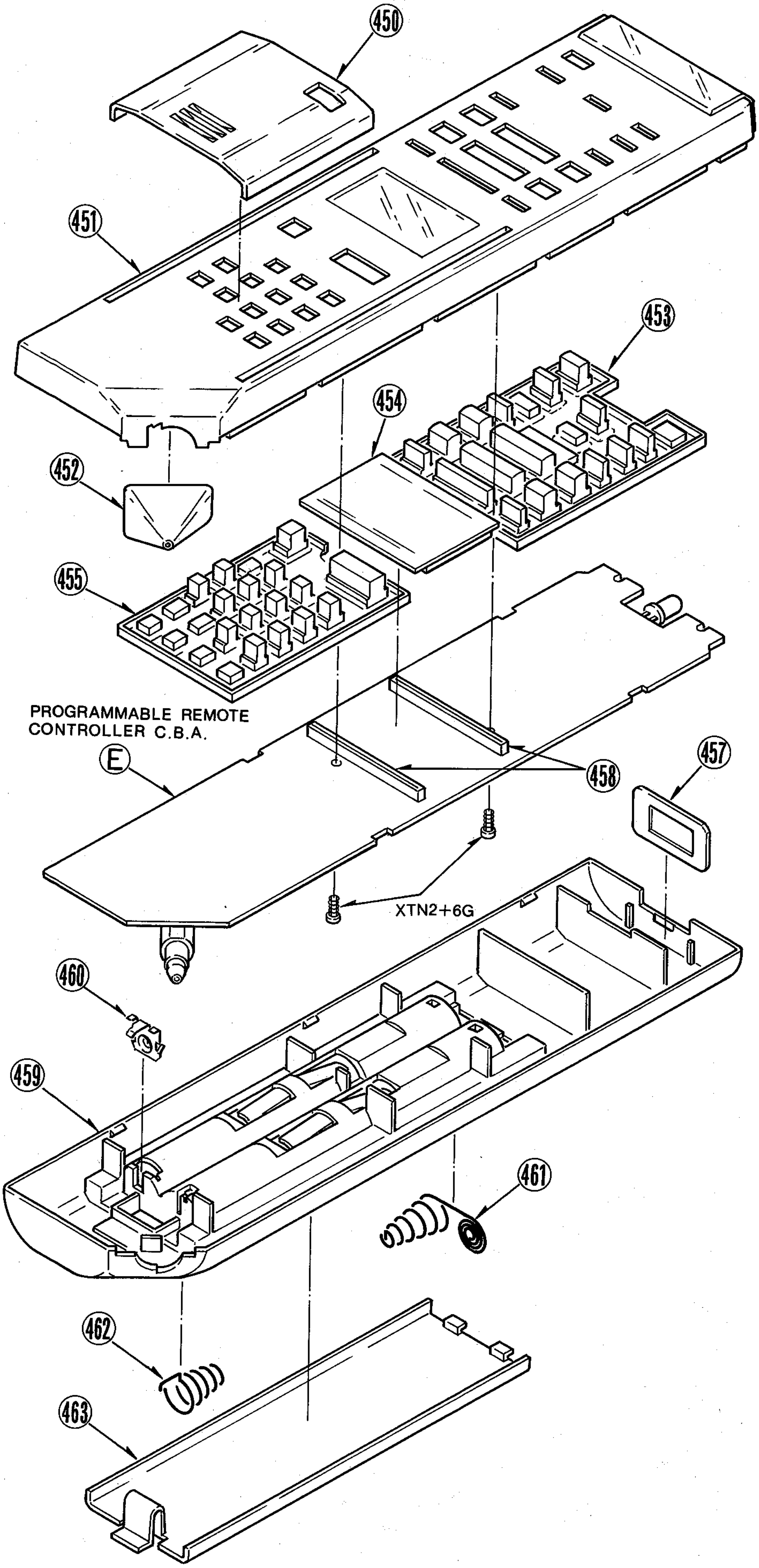
❹ CASING PARTS SECTION



❺ PACKING PARTS SECTION



❻ REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) UNIT



ORDER NO. VRD8902M109
(Date of issue: FEB., 1989)

PARTS LIST

MODEL NO.: NV-L25EG/B

1. NV-L25EG/B Mechanical Replacement Parts List

*This parts list is detachable from the manual.

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-L25EG/B			
1(1)		VHD0141	HEAD AMP SET SCREW	2	
2(1)		VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)		VMA6898	HEAD AMP MOUNT ANGLE (R)	1	
5(1)		VXS0082	EARTH PLATE UNIT	1	
6(1)		VEG0724	CYLINDER UNIT	1	<!>
7(1)		VEH0385	UPPER CYLINDER UNIT	1	<!>
8(1)		VJR0082	RT TERMINAL	1	
10(1)		VHD0425	UPPER CYLINDER SET SCREW	2	
11(1)		VXL1495	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0267	TENSION BAND UNIT	1	
14(1)		VXR0145	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
16(1)		VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)		VBS0038	FE HEAD	1	
18(1)		VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	2	
21(1)		VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)		VMB1582	TENSION RELEASE SPRING	1	
23(1)		VES0489	SAFETY SW	1	
24(1)		VXZ0259	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0262	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)		VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VBR0132	A/C HEAD	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0110	ADJUST NUT	1	
37(1)		VMA7831	HEAD BASE	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1857	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1858	PRESSURE ROLLER UNIT	1	
46(1)		VMB1941	PIN PRESSURE SPRING	1	
47(1)		VML2232	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0357	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHN0023	M3 NYLON NUT	1	
53(1)		VXL1485	P5 UNIT	1	
54(1)		VMB1554	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
57(1)		VXP0863	ROLLER POST UNIT	1	
58(1)		VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
61(1)		VXP0764A	ROLLER POST UNIT	1	
62(1)		VXA2686	INCLIND BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0332	CONNECTION GEAR	1	
66(1)		VXA3735	SOLENOID UNIT	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML1849	SOLENOID LEVER (1) UNIT	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB1958	MAIN BRAKE SPRING	1	
71(1)		VXR0146	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
76(1)		VHD0374	HOUSING SCREW	1	
77(1)		VHD0342	CYLINDER SCREW	3	
80(1)		VMD0911	LED HOLDER	1	
81(1)		VMA7844	REINFORCEMENT PLATE (F)	1	
82(1)		VMA7845	REINFORCEMENT PLATE (R)	1	
83(1)		VMB1733	LEAF SPRING	1	
84(1)		VMX1088	SUPPLY UPPER LIMITER	1	
85(1)		VDP1072	SUPPLY ROLLER	1	
86(1)		VMX1581	P1 COLLAR	1	
87(1)		VMX1533	SUPPLY ROLLER LIMITER	1	
88(1)		VMX1544	P4 UPPER LIMITER	1	
89(1)		VMX1568	P4 SLEEVE	1	
90(1)		VMX1534	P4 LOWER LIMITER	1	
100(2)		VMX1079	CUT WASHER	5	
101(2)		VMB1583	TAKE UP SOFT BRAKE RELEASE ARM SPRING	1	
102(2)		VMB1560	MAIN LEVER SPRING	1	
103(2)		VXA3509	MAIN LEVER (1) UNIT	1	
104(2)		VMM0215	SUB LEVER	1	
105(2)		VXL1873	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA3516	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0574	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0547	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP1002	TAKE UP REEL GEAR UNIT	1	
128(2)		VDG0445	SUPPLY REEL GEAR	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP0777	ROTOR UNIT	1	
134(2)		VMA7941	ROTOR STOPPER	1	
135(2)		VEK4105	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP0917	CENTRE PULLEY UNIT	1	
138(2)		VDG0564	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3515	SECTOR GEAR UNIT	1	
142(2)		VDG0448	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML1855	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0546	INTERMEDIATE GEAR	1	
147(2)		VXL1861	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	
149(2)		VMB1746	LOADING SPRING(S)	1	
150(2)		VHD0431	STATOR SPACER SCREW	1	
151(2)		VHN0102	STATOR UNIT	1	
201(3)		VMA7223	TOP PLATE	1	
202(3)		VXA3765	CASSETTE HOLDER UNIT	1	
203(3)		VXA3766	HOLDER GUIDE (L) UNIT	1	
208(3)		VXA3494	HOLDER ANGLE UNIT	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
209(3)		VMA8036	CASSETTE HOLDER	1	
210(3)		VML1882	OPENER LEVER	1	
212(3)		VMB1584	OPENER LEVER SPRING	1	
213(3)		VMD1352	HOLDER GUIDE (R)	1	
214(3)		VMB1576	RELEASE SPRING	1	
215(3)		VML1881	RELEASE LEVER	1	
216(3)		VXA2676	SIDE PLATE (L) UNIT	1	
217(3)		VMD0917	SIDE PLATE (L)	1	
218(3)		VML1880	OPENER LEVER	1	
219(3)		VXA3495	SIDE PLATE (R) UNIT	1	
221(3)		VXA3498	SLIDE SW UNIT	1	
229(3)		VXP0987	MAIN SHAFT UNIT	1	
230(3)		VMB1836	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM (L)	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1837	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF1212	BLINDER PANEL	1	
236(3)		VMB1258	BLINDER SPRING	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)		VYP2622	TOP PANEL UNIT	1	NV-L25EG
					[SUPPLIED FROM M.B.V]
300(4)		VYP2602	TOP PANEL UNIT	1	NV-L25B
					[SUPPLIED FROM M.B.V]
301(4)		VHD0304	TOP PANEL SCREW	4	NV-L25EG
301(4)		VHD0304	TOP PANEL SCREW	2	NV-L25B
302(4)		VKU0309	BOTTOM PLATE	1	NV-L25EG
					[SUPPLIED FROM M.B.V]
302(4)		VKU0245	BOTTOM PLATE	1	NV-L25B
					[SUPPLIED FROM M.B.V]
303(4)		VYP2642	FRONT PANEL UNIT	1	NV-L25EG
					[SUPPLIED FROM M.B.V]
303(4)		VYP2641	FRONT PANEL UNIT	1	NV-L25B
					[SUPPLIED FROM M.B.V]
304(4)		VKW1100	FRONT DISPLAY PLATE	1	
305(4)		VYF1342	FRONT DOOR UNIT	1	[SUPPLIED FROM M.B.V]
307(4)		VGQ0550	DOOR LOCK PIECE	2	
308(4)		VEJ0793	ANT. TERMINAL PLATE	1	NV-L25EG
					[SUPPLIED FROM M.B.V]
308(4)		VEJ0792	ANT. TERMINAL PLATE	1	NV-L25B
					[SUPPLIED FROM M.B.V]
311(4)		VHD0059	BOTTOM PLATE SCREW	7	NV-L25EG
311(4)		VHD0059	BOTTOM PLATE SCREW	4	NV-L25B
313(4)		VXA3635	POWER SHIELD CASE(MAIN)UNIT	1	
314(4)		VSC2351	POWER SHIELD COVER (TOP)	1	
315(4)		VGH1476	NAME PLATE	1	
316(4)		VGQ1377	IC. HOLDER	1	
317(4)		VMZ1224	INSULATION SHEET	1	
318(4)		VMZ1140	SW BARRIER(A)	1	
319(4)		VSC2237	POWER SHIELD COVER(BOTTOM)	1	
320(4)		VKC0357	MAIN HINGE	2	
321(4)		VKA0084	RUBBER FOOT	2	
322(4)		VMP1994	TOP HOLDER ANGLE (RR)	1	NV-L25B
323(4)		VMP1995	TOP HOLDER ANGLE (RL)	1	
324(4)		VMP1037	TOP HOLDER ANGLE (L)	3	NV-L25EG
325(4)		VMC0461	THUNDER EARTH SPRING	1	
326(4)		VMA7949	EARTH ANGLE	1	
327(4)		VKC0327	TIMER HINGE (A)	1	
328(4)		VKC0328	TIMER HINGE (B)	1	
329(4)		VMC0460	EARTH SPRING	1	
330(4)		VJF0707	MAIN C.B.A. HOLDER	1	
331(4)		VHD0141	MAIN SCREW	1	
400(5)		VQT3088	OPERATING INSTRUCTIONS	1	<!>NV-L25EG
			(ENGLISH/GERMAN/GREEK)		[SUPPLIED FROM M.B.V]
400(5)		VQT3087	OPERATING INSTRUCTIONS	1	<!>NV-L25B
			(ENGLISH)		[SUPPLIED FROM M.B.V]
401(5)		VPK0825	ACCESSORIES BOX	1	[SUPPLIED FROM M.B.V]
402(5)		VEQ0936	REMOTE CONTROL UNIT	1	NV-L25EG
			(BUILD IN DIGITAL SCANNER)		
402(5)		VEQ0935	REMOTE CONTROL UNIT	1	NV-L25B
			(BUILD IN DIGITAL SCANNER)		
403(5)		VJA0443	AC POWER CORD	1	<!>NV-L25EG
403(5)		VJA0445	AC POWER CORD	1	<!>NV-L25B
404(5)		VJA0376	DIN RF CABLE	1	
405(5)		VQC1315	PROGRAMME SHEET	1	NV-L25EG
405(5)		VQC1330	PROGRAMME SHEET	1	NV-L25B
406(5)		VPN2356	CUSHION (R)	1	[SUPPLIED FROM M.B.V]
407(5)		VPN2357	CUSHION (L)	1	[SUPPLIED FROM M.B.V]
408(5)		VPG4597	PACKING	1	NV-L25EG
					[SUPPLIED FROM M.B.V]
408(5)		VPG4596	PACKING	1	NV-L25B
					[SUPPLIED FROM M.B.V]
450(6)		VKF1201	SLIDING LID	1	
451(6)		VYK2467	TOP COVER UNIT	1	NV-L25EG
451(6)		VYK2468	TOP COVER UNIT	1	NV-L25B
452(6)		VGQ1640	SENSOR CAP	1	
453(6)		VSP0417	RUBBER CONTACT (A)	1	
454(6)		VSL0156	LCD	1	
455(6)		VSP0404	RUBBER CONTACT (B)	1	
457(6)		VKW0878	IR WINDOW	1	
458(6)		VMT0257	BASE RUBBER(LCD)	2	
459(6)		VKM1673	BOTTOM COVER	1	
460(6)		VJR0507	ELECTRODE(+)	1	
461(6)		VJR0497	ELECTRODE(COM.)	1	
462(6)		VJR0412	ELECTRODE(-)	1	
463(6)		VKF1202	BATTERY COVER	1	
			SERVICING FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE	1	
		VFK0335	RETAINING RING REMOVER	1	(3mm/4mm)
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJUSTMENT	1	
			SCREWDRIVER		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	

Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'■'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-L25EG/B			
		VEP03588E	MAIN C.B.A.	1	NV-L25EG(NLA)<!>
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					CYLINDER DRIVE PACK
					C.B.A.(VEP02329A),
					SUB MAIN C.B.A.
					(VEP03590B) WITH DDR
					SECAM PACK C.B.A.
					(VEP03452B), INPUT/
					OUTPUT PACK C.B.A.
					(VEP03594B),OSC PACK
					C.B.A.(VEP06583A),
					TV DEMODULATOR C.B.A.
					(VEP07536C),VPS PACK
					C.B.A.(VEP07538B)
		VEP03588G	MAIN C.B.A.	1	NV-L25B(NLA)<!>
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					CYLINDER DRIVE PACK
					C.B.A.(VEP02329A),
					SUB MAIN C.B.A.
					(VEP03590C),OSC PACK
					C.B.A.(VEP06583A),
					TV DEMODULATOR C.B.A.
					(VEP07550D)
		VEP02329A	CYLINDER DRIVE PACK C.B.A.	1	(NLA)
					[SUPPLIED FROM M.B.V]
		VEP03590C	SUB MAIN C.B.A.	1	NV-L25B(NLA)
					[SUPPLIED FROM M.B.V]
		VEP03590B	SUB MAIN C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					DDR SECAM C.B.A.
					(VEP03452B).
		VEP03452B	DDR SECAM PACK C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
		VEP03594B	INPUT/OUTPUT PACK C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
		VEP06583A	OSC PACK C.B.A.	1	(NLA)
					[SUPPLIED FROM M.B.V]
		VEP07550D	TV DEMODULATOR C.B.A.	1	NV-L25B(NLA)
					[SUPPLIED FROM M.B.V]
		VEP07536C	TV DEMODULATOR C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
		VEP07538B	VPS PACK C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
		VEP07543C	TIMER C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					IR RECIVER C.B.A.
					(VEP06380G) OR
					(VEP06500G).
		VEP07544C	TIMER C.B.A.	1	NV-L25B(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					IR RECIVER C.B.A.
					(VEP06380G) OR
					(VEP06500G).
		VEP06380G	IR RECIVER C.B.A.	1	(NLA)
		VEP06500G			[SUPPLIED FROM M.B.V]
		VEP05137D	HEAD AMP C.B.A.	1	NV-L25EG(NLA)
		VEP05137A	HEAD AMP C.B.A.	1	NV-L25B(NLA)
		VEP06558G	OPERATION C.B.A.	1	NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					MIC JACK C.B.A.
					(VEP00N31A).
		VEP06558A	OPERATION C.B.A.	1	NV-L25B(NLA)
					[SUPPLIED FROM M.B.V]
					INCLUDING THE
					MIC JACK C.B.A.
					(VEP00N31A).
		VEP00N31A	MIC JACK C.B.A.	1	(NLA)
					[SUPPLIED FROM M.B.V]
		VEP01379D	POWER C.B.A.	1	NV-L25EG(NLA)<!>
					[SUPPLIED FROM M.B.V]
		VEP01379C	POWER C.B.A.	1	NV-L25B(NLA)<!>
					[SUPPLIED FROM M.B.V]
		VEP66079G	REMOTE CONTROLLER C.B.A.	1	NV-L25EG(NLA)
		VEP66079F	REMOTE CONTROLLER C.B.A.	1	NV-L25B(NLA)
		VEP00K88C	FE HEAD C.B.A.	1	(NLA)
		VXA3554	MECHANICAL CONNECTION	1	(NLA)
			C.B.A.		
		VEK3578	PHOTO TR.(S) C.B.A.	1	(NLA)
	■	VEP03588E	MAIN C.B.A		NV-L25EG(NLA)<!>
					[SUPPLIED FROM M.B.V]
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C352		ECQB1H562JH	P.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECUM1H153ZFN	C.CAPACITOR CH 50V 0.015U	1	
C361		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C701		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C707		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUN1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUX1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C775		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C781		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C797,98		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C830		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C833		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C851		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C852		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C853		ECEA10Z47	E.CAPACITOR 10V 47U	1	
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C856		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C858		ECKF1H681KB	C.CAPACITOR 50V 680P	1	
C1001		ECEA1EK470	E.CAPACITOR 25V 47U	1	
C1003		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C1004		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2001		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2002		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2003		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C2004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2005		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C2006		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2007		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2008		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2009		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2010		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2011		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2012		VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2013		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2014		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2015		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2016		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C2017		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2018		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2019		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2020		VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2022		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2024		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2025		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2026		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2028		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2029		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2030		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2031		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2032		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2033		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2034		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2050		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2101-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2104-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2107,08		VCYD1E333KR	S.CAPACITOR 25V 0.033U	2	
C2111		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2115		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2116		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2118		VCYD1E333KR	S.CAPACITOR 25V 0.033U	1	
C2121		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2201		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2203		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2204-06		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2207		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2208-10		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2211		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2212		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2213		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2301		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2302		VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2303		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2304		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2305		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2501		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2502		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2504		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2505		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2506		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2507		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C2508		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2509		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3012		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3015		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3017,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3065		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3071		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3072		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3076		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3081		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C3101		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3103,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3901,02		ECEA1CK330U	E.CAPACITOR 16V 33U	2	
C3903		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3904-06		ECEA1CK470U	E.CAPACITOR 16V 47U	3	
C3907,08		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	2	
C3909		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C3913		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3914		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C3916		ECUX1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4001		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1222JZ	P.CAPACITOR 0.0022U	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4015		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M47	E.CAPACITOR 10V 47U	1	
C4018		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4029		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4032		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4034		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C6001,02		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C6005		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6010		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C6011,12		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6013		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6014		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C6015		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6021		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C6022		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6028		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C6029		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6102		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6103		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6104		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6105		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6106		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6801		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7401		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7402		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7404		ECQV1H223JS	P.CAPACITOR 50V 0.022U	1	
C7407		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C7409		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7410		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7422		ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C7423		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECQB1H332JH	P.CAPACITOR 50V 3300P	1	
C7668		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7672		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C7801		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7802		ECQB1H471JH	P.CAPACITOR 50V 470P	1	
C7803		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C7804		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7805		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7806		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C7815		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816		ECEA0JKA331	E.CAPACITOR 6.3V 330U	1	
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C7853,54		ECCF1H330JC	C.CAPACITOR 50V 33P	2	
C7855,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7860		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D771		MA151WK	DIODE	1	
D772		MA165	DIODE	1	
D773		11ES1	DIODE	1	
D1001,02		MA165	DIODE	2	
D2003,04		MA165	DIODE	2	
D2007-10		MA165	DIODE	4	
D2501		MA165	DIODE	1	
D3001		MA165	DIODE	1	
D3009		MA165	DIODE	1	
D3101		MA165	DIODE	1	
D3102		MA27WA	DIODE	1	
D3901,02		MA165	DIODE	2	
D4003		MA165	DIODE	1	
D6001		MA4051	DIODE	1	
D6002-04		MA165	DIODE	3	
D6005		ERA15-01	DIODE	1	
D6006		MA165	DIODE	1	
D6008		MA723	DIODE	1	
D6009		MA4150L	DIODE	1	
D6021		MA723	DIODE	1	
D6801		MA165	DIODE	1	
D7401,02		MA723	DIODE	2	
D7406		MA165	DIODE	1	
D7407		MA27TB	DIODE	1	
D7672		MA3300H	DIODE	1	
D7851		MA165	DIODE	1	
DL802		EFDBR124A53T	DELAY	1	
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0727	FILTER	1	
FL801		ELB4W002	FILTER	1	
FL851		VLF0143	FILTER	1	
FL3101		VLF0413	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04F	P.C.BOARD	1	
IC851		BA7025L	IC	1	
IC2001		MN6740VCPK	IC	1	
IC2101		BA6435S	IC	1	
IC2201		AN3814K	IC	1	
IC2301		AN6561L	IC	1	
IC2302		AN6913L	IC	1	
IC2501		CF77384NS	IC	1	
IC2502		BA6305F	IC	1	
IC3101		BA7004	IC	1	
IC3901		LA7150	IC	1	
IC4001		BA7766AS	IC	1	
IC4002		MC14053BF	IC	1	
IC6003		MN12821	IC	1	(R)
IC6801		MN15522VMS	IC	1	
IC7801		SAA4700	IC	1	
IC7851		MN158413VHW	IC	1	
IC7852		MN1280S	IC	1	
J701		VJR0231	PACK PIN	1	
J702,03		VJR0406	PACK PIN	2	
J704		VJR0231	PACK PIN	1	
KR851		VJR0163	PACK PIN	1	
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L711		ELQTR68XB	COIL 0.68UH	1	
L712		VLQ0305J1R2	COIL 1.2UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		ELESP560KA	COIL 56H	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQ0213K150	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L851		VLQEL05F101K	COIL 100UH	1	
L2002		VLP0074	COIL	1	
L2003		VLQEL05F101K	COIL 100UH	1	
L2101		VLQEL05F102K	COIL 1000UH	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F6R8K	COIL 6.8UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3101		VLQEL05F101K	COIL 100UH	1	
L3901		VLQEL05F1R0K	COIL 1UH	1	
L3902		VLQEL05F2R7K	COIL 2.7UH	1	
L3903		VLQEL05F1R0K	COIL 1UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3904		VLQEL06F471K	COIL 470UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L6101		VLQEL05F101K	COIL 100UH	1	
L7401		VLQEL05F1R0K	COIL 1UH	1	
L7402		VLQEL05F101K	COIL 100UH	1	
L7403		VLP0085	FILTER	1	
L7404		VLQEL05F1R0K	COIL 1UH	1	
L7405		VLQEL05F101K	COIL 100UH	1	
P001		VJS1237T	CONNECTOR	1	
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1931T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1001		VJP1393T	CONNECTOR(MALE) 13P	1	
P1101		VJF0171T	CONNECTOR	1	
P1502		VJS1141T	CONNECTOR (FEMALE)	1	
P2001		VJP1932T	CONNECTOR (MALE)	1	
P2001		VJS1932T	CONNECTOR (FEMALE)	1	
P2201		VJP1237T	CONNECTOR(MALE) 10P	1	
P2201		VJS1237T	CONNECTOR	1	
P3001		VJP1931T	CONNECTOR (MALE)	1	
P3001		VJS1931T	CONNECTOR (FEMALE)	1	
P3902		VJS1469	CONNECTOR(FEMALE) 21P	1	
P4001		VJP2622	CONNECTOR (MALE)	1	
P4002		VJP1229T	CONNECTOR(MALE) 2P	1	
P4002		VJS1229T	CONNECTOR (FEMALE)	1	
P4003		VJP1231T	CONNECTOR(MALE) 4P	1	
P4003		VJS1231T	CONNECTOR (FEMALE)	1	
P6001		VJS2571A012	CONNECTOR (FEMALE)	1	
P6002		VJS2571A004	CONNECTOR (FEMALE)	1	
P6202		VJS1231T	CONNECTOR (FEMALE)	1	
P7401		VJS1662	CONNECTOR (FEMALE)	1	
P7402		VJS2571A015	CONNECTOR (FEMALE)	1	
PK1		VJR0189	PACK PIN	1	
PK2201		VJR0452	PACK PIN	1	
PK2202		VJR0348	PACK PIN	1	
PK3901		VJR0348	PACK PIN	1	
PK3902		VJR0523	PACK PIN	1	
PK3903		VJR0348	PACK PIN	1	
PK3904		VJR0416	PACK PIN	1	
PK6101		VJR0277	PACK PIN	1	
Q301		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q2001		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q2002		2SD1330	TRANSISTOR	1	(S,T)
Q2301		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q2302,03		2SB709	TRANSISTOR CHIP	2	(Q,R,S)
Q3001		2SC2295	TRANSISTOR	1	
Q3003		2SD601	TRANSISTOR CHIP	1	
Q3004		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q3101		2SD601	TRANSISTOR CHIP	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q4002		2SB790	TRANSISTOR	1	(Q,R,S)
Q6001		2SD893	TRANSISTOR	1	
Q6002,03		2SD973	TRANSISTOR	2	(S)
Q6004		2SD638	TRANSISTOR	1	
Q6006		2SB643	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q6007		2SB710	TRANSISTOR	1	(R,S)
Q6008		2SD1273	TRANSISTOR	1	(P,O)
Q6009		2SB710	TRANSISTOR	1	(R,S)
Q6010		2SD637	TRANSISTOR	1	
Q6011		2SB709	TRANSISTOR CHIP	1	
Q6101		2SC2206	TRANSISTOR	1	(B,C)
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR714		UN2211	TRANSISTOR-RESISTOR	1	
QR853		UN1213	TRANSISTOR-RESISTOR	1	
QR1001		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		DTC363EK	COMBI.TR-R	1	
QR2004		2SD1676	COMBINATION PARTS	1	
QR2005		UN2213	TRANSISTOR-RESISTOR	1	
QR2502		DTC363EK	COMBI.TR-R	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR3005		UN2213	TRANSISTOR-RESISTOR	1	
QR3008		UN2213	TRANSISTOR-RESISTOR	1	
QR4001,02		UN2213	TRANSISTOR-RESISTOR	2	
QR6002		UN2119	TRANSISTOR-RESISTOR	1	
QR6003		UN2113	TRANSISTOR-RESISTOR	1	
QR6004		UN2213	TRANSISTOR-RESISTOR	1	
QR6007		UN2212	TRANSISTOR-RESISTOR	1	
QR6008		UN2213	TRANSISTOR-RESISTOR	1	
QR6011,12		UN2212	TRANSISTOR-RESISTOR	2	
QR6201		UN2113	TRANSISTOR-RESISTOR	1	
QR6202		UN2213	TRANSISTOR-RESISTOR	1	
QR7401		UN2211	TRANSISTOR-RESISTOR	1	
QR7851		UN1211	TRANSISTOR-RESISTOR	1	
QR7852		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R302		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R303		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R306		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R307		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R308		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R309		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R310		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R311		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R312		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R317		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R320		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R325		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R326		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R327		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R328		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R329		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R330		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R331		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R332		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R338		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R339		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R712		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R713		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R717		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718		ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719,20		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R722		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R723		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R724		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R725		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R726		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R729,30		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	2	
R737		ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R739		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R740		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R741		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R743		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R750		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R757		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R758		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R774		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R781		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R782		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R796		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R818		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R819		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R820		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R821		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R822		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R823		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R824		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R825		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R831		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R851		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R852		ERDS2TJ390	C.RESISTOR 1/4W 39	1	
R853		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R854		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R855		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R856		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R858		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2001,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2004,05		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2006		ERJ6GMY0R00	M.RESISTOR CH 1/10W 0.00	1	
R2007		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2008		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2009		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2010		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2011		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2012		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2013		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2014		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2015,16		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2017		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2018		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2019		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R2020		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2021		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2022		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2023		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2024		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2025		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R2026		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2027		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2028		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2029		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2030		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2031		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2032		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2033		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2034		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2051		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2101-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2104		ERX12SJR47E	M.RESISTOR 1/2W 0.47	1	
R2105		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2106		ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R2107		ERJ6GMYG153	M.RESISTOR CH1/10W 15K	1	
R2108		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2109		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R2201		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R2202-04		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2205		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2301		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2302		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2303		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2304		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2305		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2306		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2307		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2308		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2309		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2310		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2311		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2312,13		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2314,15		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2316		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2405		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2501		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2503		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2504		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2505		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2506		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3002		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3003		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3027		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3029		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3042		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3062		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3063		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3071		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R3086		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3087,88		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R3094		ERJ6GMY0R00	M.RESISTOR CH 1/10W 0.00	1	
R3095		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3096		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3901		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	1	
R3902		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3903,04		ERJ6GEYJ242	M.RESISTOR CH 1/10W 2.4K	2	
R3905		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3906		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3908		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3909		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	1	
R3910		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3912		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3913		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3916		ERDS2T0	C.RESISTOR 1/4W 0	1	
R4001		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4002		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4003		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4004		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4007		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R4008		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4010		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4012		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R4016		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017		ERJ6GMYJ302	M.RESISTOR CH1/10W 3K	1	
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4021		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4022		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4031		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R4032		ERJ6GMYG622	M.RESISTOR CH1/10W 6.2K	1	
R4035		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4036		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4038		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R4039		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4040		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4041		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4042		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4044		ERJ6GMY0R00	M.RESISTOR CH 1/10W 0.00	1	
R4048		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4049		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6001-03		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	3	
R6004,05		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6006		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6007		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6008		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6009		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6010		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6011		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6012		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6013		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6014		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6015		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6017		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6018		ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6019		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6020		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6021		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6022		ERG3SJ220	M.RESISTOR 3W 22	1	
R6023		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6024		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6025		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R6026		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6028		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6029		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6039		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6040		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6041		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6042,43		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6044,45		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6047		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6048		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6049		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6050		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6051		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6052		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6053		ERG2SJ471	M.RESISTOR 2W 470	1	
R6054		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6055		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6056		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6057		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6059		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6060		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6101		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6103,04		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R6201		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6202		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6203		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6204		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R6205,06		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6801		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R7401		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7402		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7656		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7676		ERG1SJ332	M.RESISTOR 1W 3.3K	1	
R7801		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R7802		EROS2CKG7502	M.RESISTOR 1/4W 75K	1	
R7803,04		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	
R7805		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R7806		EROS2CKG3601	M.RESISTOR 1/4W 3.6K	1	
R7851		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7852		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7860		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T710		EULBEF023	TRANSFORMER	1	
T711		EIS5EC004A	TRANSFORMER	1	
T851		ELM7Q207A	COIL	1	
T4001		EIQ7QF013Q	TRANSFORMER	1	
VR302		EVN4YCA00B23	V.RESISTOR 2K	1	
VR701,02		EVM4LGA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2010		EVND1AA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP2	CRYSTAL OSCILLATOR	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5	FILTER	1	
X715		ELB5A043	FILTER	1	
X716		EFCA31R90M1	CRYSTAL OSCILLATOR	1	31.75MHZ
X717		EFCA40R40M1	FILTER	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
X6101		VSX0244	CRYSTAL OSCILLATOR	1	
X6801		VSX0258	CRYSTAL OSC.	1	
X7401		VSQ0565	SENSOR	1	
X7851		EFOA4R0M03C2	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMC0075	HEAT SINK FIX SPRING	1	
		VSC1689	HEAT SINK FOR IC	1	
		VSC1068	HEAT SINK FOR TR.	1	
		VSC2712	SHIELD BOX(TOP)	1	FOR TV DEMODU. PACK
		VSC2713	SHIELD BOX(MAIN)	1	FOR TV DEMODU. PACK
		VSC2714	SHIELD BOX(BOTTOM)	1	FOR TV DEMODU. PACK
		ENC17956	RF CONVERTER UNIT	1	<!>
					[SUPPLIED FROM M.B.V]
		ENV57830H6	TUNER UNIT	1	<!>
					[SUPPLIED FROM M.B.V]
		VEJ0793	ANT. TERMINAL PLATE	1	[SUPPLIED FROM M.B.V]
		VEJ0776	JACK PLATE	1	[SUPPLIED FROM M.B.V]
		VWJ14AW140MM	FLEXIBLE WIRE	1	P7401-P7501
		VMZ1130	HEAT SINK BARRIER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03588G	MAIN C.B.A.		NV-L25B<!>(NLA)
					[SUPPLIED FROM M.B.V]
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C309		ECUN1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C315		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C316		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C318		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C323,24		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C339		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C341		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C342		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C343		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C345		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C352		ECQB1H562JH	P.CAPACITOR 50V 5600P	1	
C360		ECUM1H153ZFN	C.CAPACITOR CH 50V 0.015U	1	
C361		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C702		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C706		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C708		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUN1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270JSN	C.CAPACITOR CH 50V 27P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUX1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C781		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C797-99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C801,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C803		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C804,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C806		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C807,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C810		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C811		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C812		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C813		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C833		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C1001		ECEA1EK470	E.CAPACITOR 25V 47U	1	
C1003		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C1004		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2001		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2002		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2003		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C2004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2005		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C2006		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2007		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2008		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2009		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2010		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2011		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2012		VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2013		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2014		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2015		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2016		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C2017		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2018		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2019		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2020		VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2022		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2024		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2025		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2026		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2028		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2029		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2030		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2031		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2032		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2033		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2034		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2050		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2101-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2104-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2107,08		VCYD1E333KR	S.CAPACITOR 25V 0.033U	2	
C2111		ECEA1CK101	E.CAPACITOR 16V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2115		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2116		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2118		VCYD1E333KR	S.CAPACITOR 25V 0.033U	1	
C2121		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2201		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2203		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2204-06		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2207		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2208-10		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2211		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2212		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2213		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2301		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2302		VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2303		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2304		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2305		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2501		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2502		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2504		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2505		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2506		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2507		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C2508		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2509		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3012		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3015		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3017,18		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3027		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3076		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3081		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C3101		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3103,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4001		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1222JZ	P.CAPACITOR 0.0022U	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4014		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C4015		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M47	E.CAPACITOR 10V 47U	1	
C4018		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C4029		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4032		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4033		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4034		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C4036		ECCF1H681J	C.CAPACITOR 50V 680P	1	
C6001,02		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C6005		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6010		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C6011,12		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6013		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6014		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C6015		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6021		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C6022		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6102		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6103		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6104		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6105		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6106		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6801		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7401		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7402		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7409		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7422		ECKF1H272KB	C.CAPACITOR 50V 2700P	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C7654		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7655,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7657		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7658		ECQP1H562JZ	P.CAPACITOR 50V 5600P	1	
C7659		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7661		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7662		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7663		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7664		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7675		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7678		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7680		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7681,82		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D771		MA151WK	DIODE	1	
D772		MA165	DIODE	1	
D773		MA151K	DIODE	1	
D805		MA165	DIODE	1	
D1001,02		MA165	DIODE	2	
D2003,04		MA165	DIODE	2	
D2007-10		MA165	DIODE	4	
D2407		MA204WK	DIODE	1	
D2408		MA165	DIODE	1	
D2501		MA165	DIODE	1	
D3001		MA165	DIODE	1	
D3009		MA165	DIODE	1	
D3101		MA165	DIODE	1	
D3102		MA27WA	DIODE	1	
D4003		MA165	DIODE	1	
D6001		MA4051	DIODE	1	
D6002-04		MA165	DIODE	3	
D6005		ERA15-01	DIODE	1	
D6006		MA165	DIODE	1	
D6008		MA723	DIODE	1	
D6009		MA4150L	DIODE	1	
D6021		MA723	DIODE	1	
D6801		MA165	DIODE	1	
D7401,02		MA723	DIODE	2	
D7407		MA27TB	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7506		MA165	DIODE	1	
DL801		VLD0089	DELAY	1	
DL802		EFDBR124A53T	DELAY	1	
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0727	FILTER	1	
FL801		ELB4W002	FILTER	1	
IC301		VEFH03D	HIC	1	
IC302		AN3495K	IC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04F	P.C.BOARD	1	
IC2001		MN6740VCPK	IC	1	
IC2101		BA6435S	IC	1	
IC2201		AN3814K	IC	1	
IC2301		AN6561L	IC	1	
IC2302		AN6913L	IC	1	
IC2501		CF77384NS	IC	1	
IC2502		BA6305F	IC	1	
IC3101		BA7004	IC	1	
IC4001		BA7766AS	IC	1	
IC4002		MC14053BF	IC	1	
IC6003		MN12821	IC	1	(R)
IC6801		MN15522VMS	IC	1	
IC7651		AN5421	IC	1	
IC7652		AN5043	IC	1	
IC7653		MN4066BS	IC	1	
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303		VLQEL05F101K	COIL 100UH	1	
L304		VLQEL05F121K	COIL 120UH	1	
L305		VLQEL05F680K	COIL 68UH	1	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L701,02		ELESP680KA	COIL 68UH	2	
L711		VLQ0305J1R2	COIL 1.2UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L720		ELESP680KA	COIL 68UH	1	
L781		ELESP330KA	COIL 33H	1	
L801		VLQEL05F101K	COIL 100UH	1	
L802,03		VLQEL05F150K	COIL 15UH	2	
L804		VLQ0213K150	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2002		VLP0074	COIL	1	
L2003		VLQEL05F101K	COIL 100UH	1	
L2101		VLQEL05F102K	COIL 1000UH	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F6R8K	COIL 6.8UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3011		VLQEL05F5R6K	COIL 5.6UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3101		VLQEL05F101K	COIL 100UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L6101		VLQEL05F101K	COIL 100UH	1	
L7401		VLQEL05F1R0K	COIL 1UH	1	
L7402		VLQEL05F101K	COIL 100UH	1	
L7404		VLQEL05F1R0K	COIL 1UH	1	
P001		VJS1237T	CONNECTOR	1	
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1931T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1001		VJP1393T	CONNECTOR(MALE) 13P	1	
P1101		VJF0171T	CONNECTOR	1	
P1502		VJS1141T	CONNECTOR (FEMALE)	1	
P2001		VJP1932T	CONNECTOR (MALE)	1	
P2001		VJS1932T	CONNECTOR (FEMALE)	1	
P2201		VJP1237T	CONNECTOR(MALE) 10P	1	
P2201		VJS1237T	CONNECTOR	1	
P3001		VJP1931T	CONNECTOR (MALE)	1	
P3001		VJS1931T	CONNECTOR (FEMALE)	1	
P4001		VJP2622	CONNECTOR (MALE)	1	
P4002		VJP1229T	CONNECTOR(MALE) 2P	1	
P4002		VJS1229T	CONNECTOR (FEMALE)	1	
P4003		VJP1231T	CONNECTOR(MALE) 4P	1	
P4003		VJS1231T	CONNECTOR (FEMALE)	1	
P6001		VJS2571A012	CONNECTOR (FEMALE)	1	
P6002		VJS2571A004	CONNECTOR (FEMALE)	1	
P6202		VJS1231T	CONNECTOR (FEMALE)	1	
P7401		VJS1662	CONNECTOR (FEMALE)	1	
P7402		VJS2571A015	CONNECTOR (FEMALE)	1	
PK701		VJR0231	PACK PIN	1	
PK702,03		VJR0406	PACK PIN	2	
PK704		VJR0231	PACK PIN	1	
PK2201		VJR0452	PACK PIN	1	
PK2202		VJR0348	PACK PIN	1	
PK6101		VJR0277	PACK PIN	1	
Q301		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC1047	TRANSISTOR	1	
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q771		2SD601	TRANSISTOR	1	(S,T)
Q772		2SD601	TRANSISTOR CHIP	1	(S,T)
Q801		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q802		2SC2295	TRANSISTOR CHIP	1	(B,C)
Q804		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q2001		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q2002		2SD1330	TRANSISTOR	1	(S,T)
Q2301		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q2302,03		2SB709	TRANSISTOR CHIP	2	(Q,R,S)
Q3001		2SC2295	TRANSISTOR	1	
Q3003		2SD601	TRANSISTOR CHIP	1	
Q3004		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q3101		2SD601	TRANSISTOR CHIP	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q4002		2SB790	TRANSISTOR	1	(Q,R,S)
Q6001		2SD893	TRANSISTOR	1	
Q6002,03		2SD973	TRANSISTOR	2	(S)
Q6004		2SD638	TRANSISTOR	1	
Q6006		2SB643	TRANSISTOR	1	
Q6007		2SB710	TRANSISTOR	1	(R,S)
Q6008		2SD1273	TRANSISTOR	1	(P,O)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q6009		2SB710	TRANSISTOR	1	(R,S)
Q6010		2SD637	TRANSISTOR	1	
Q6011		2SB709	TRANSISTOR CHIP	1	
Q6101		2SC2206	TRANSISTOR	1	(B,C)
QR301-03		UN2212	TRANSISTOR-RESISTOR	3	
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR801		UN2212	TRANSISTOR-RESISTOR	1	
QR1001		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		DTC363EK	COMBI.TR-R	1	
QR2004		2SD1676	COMBINATION PARTS	1	
QR2005		UN2213	TRANSISTOR-RESISTOR	1	
QR2405		UN2213	TRANSISTOR-RESISTOR	1	
QR2502		DTC363EK	COMBI.TR-R	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR3005		UN2213	TRANSISTOR-RESISTOR	1	
QR3006,07		DTC363EK	COMBI.TR-R	2	
QR3008		UN2213	TRANSISTOR-RESISTOR	1	
QR3010		UN2213	TRANSISTOR-RESISTOR	1	
QR4001,02		UN2213	TRANSISTOR-RESISTOR	2	
QR6002		UN2119	TRANSISTOR-RESISTOR	1	
QR6003		UN2113	TRANSISTOR-RESISTOR	1	
QR6004		UN2213	TRANSISTOR-RESISTOR	1	
QR6006		UN2213	TRANSISTOR-RESISTOR	1	
QR6007		UN2212	TRANSISTOR-RESISTOR	1	
QR6008		UN2213	TRANSISTOR-RESISTOR	1	
QR6011,12		UN2212	TRANSISTOR-RESISTOR	2	
QR6201		UN2113	TRANSISTOR-RESISTOR	1	
QR6202		UN2213	TRANSISTOR-RESISTOR	1	
QR7401		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R302		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R303		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R306		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R307		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R308		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R309		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R310		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R311,12		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R313		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R314		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R315		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R317		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R318		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R319		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R320		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R325		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R326		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R327		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R328		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R329		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R330		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R331		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R332		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R338		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R712		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R713		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R717		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718		ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R720		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R721		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R723		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R726		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R729,30		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	2	
R737		ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R739		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R740		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R743		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R750		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R751		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R756		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R757,58		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R781		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R782		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R799		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R801		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R802		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R803,04		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R805,06		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R807		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R808		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R809		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R810		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R817,18		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R819		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R820		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R821		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R822		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R823		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R824		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R825		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R827		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R828		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R831		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2001,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2004,05		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2006		ERJ6GMY0R00	M.RESISTOR CH 1/10W 0.00	1	
R2007		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2008		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2009		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2010		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2011		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2012		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2013		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2014		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2015,16		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2017		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2018		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2019		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R2020		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2021		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2022		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2023		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2024		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2025		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R2026		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2027		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2028		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2029		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2030		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2031		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2032		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2033		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2034		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2051		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2101-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2104		ERX12SJR47E	M.RESISTOR 1/2W 0.47	1	
R2105		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2106		ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R2107		ERJ6GMYG153	M.RESISTOR CH1/10W 15K	1	
R2108		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2109		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R2201		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R2202-04		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2205		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2301		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2302		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2303		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2304		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2305		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2306		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2307		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2308		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2309		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2310		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2311		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2312,13		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2314,15		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2316		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2405		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2501		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2503		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2504		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2505		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2506		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3002		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3003		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3027		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3029		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3034		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3036		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R3040		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3042		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3050,51		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3057		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3060		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3062		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3063		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3085		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R3086		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3087,88		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R3091		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3094		ERJ6GMY0R00	M.RESISTOR CH 1/10W 0.00	1	
R3095		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3096		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R4001		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4002		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4003		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4004		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4007		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4008		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4010		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4012		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4016		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017		ERJ6GMYJ302	M.RESISTOR CH1/10W 3K	1	
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4021		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4022		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4031		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R4032		ERJ6GMYG622	M.RESISTOR CH1/10W 6.2K	1	
R4035		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4036		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4038		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R4039		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4040		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4041		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4042		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4044		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4048		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4049		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R6001-03		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	3	
R6004,05		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6006		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6007		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6008		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6009		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6010		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6011		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6012		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6013		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6014		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6015		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6017		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6018		ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6019		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6020		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6021		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6022		ERG3SJ220	M.RESISTOR 3W 22	1	
R6023		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6024		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6025		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R6026		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6028		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6029		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6039		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6040		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6041		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6042,43		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6044,45		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6046		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6047		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6048		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6049		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6050		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6051		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6052		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6053		ERG2SJ471	M.RESISTOR 2W 470	1	
R6054		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6055		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6056		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6057		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6059		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6060		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6101		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6103,04		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R6201		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6202		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6203		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6204		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R6205,06		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6801		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R7401		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R7402		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7651		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7654		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7655		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7656		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R7657		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7658		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7659		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7661		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7662		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7663		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7664		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7671,72		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7681,82		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7691		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7692		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7694		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
T703		EIV5EC005A	TRANSFORMER	1	
T704		EIV5EC007A	TRANSFORMER	1	
T711		EIS5EC008A	TRANSFORMER	1	
T4001		EIQ7QF013Q	TRANSFORMER	1	
VR301		EVNDRAA00B24	V.RESISTOR 20K	1	
VR302		EVN4YCA00B23	V.RESISTOR 2K	1	
VR701		EVNDRAA00B23	V.RESISTOR 2K	1	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR801		EVN4YCA00B52	V.RESISTOR 500	1	
VR802		EVN4YCA00B13	V.RESISTOR 1K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2010		EVND1AA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012,13		EVNDRAA00B52	V.RESISTOR 500	2	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
VR7660		EVN38CA00B23	V.RESISTOR 2K	1	
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH39MSP3	CRYSTAL OSCILLATOR	1	
X711		EFCS6R0MW5	CRYSTAL OSCILLATOR	1	
X712		EFCS6R0MS5	CRYSTAL OSCILLATOR	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
X6101		VSX0244	CRYSTAL OSCILLATOR	1	
X6801		VSX0258	CRYSTAL OSC.	1	
X7401		VSQ0565	SENSOR	1	
			MISCELLANEOUS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VMC0075	HEAT SINK FIX SPRING	1	
		VSC1689	HEAT SINK FOR IC	1	
		VSC1068	HEAT SINK FOR TR.	1	
		VSC2712	SHIELD BOX(TOP)	1	FOR TV DEMODU. PACK
		VSC2713	SHIELD BOX(MAIN)	1	FOR TV DEMODU. PACK
		VSC2714	SHIELD BOX(BOTTOM)	1	FOR TV DEMODU. PACK
		ENC17952	RF CONVERTER UNIT	1	<!>
					[SUPPLIED FROM M.B.V]
		ENV87823H3	TUNER UNIT	1	<!>
					[SUPPLIED FROM M.B.V]
		VEJ0792	ANT. TERMINAL PLATE	1	[SUPPLIED FROM M.B.V]
		VEJ0777	JACK PLATE	1	[SUPPLIED FROM M.B.V]
		VWJ14AW140MM	FLEXIBLE WIRE	1	
		VMZ1130	HEAT SINK BARRIER	1	
	■	VEP07543C	TIMER C.B.A.		NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H331KB	C.CAPACITOR 50V 330P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7505		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7507		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7508,09		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C7510		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7513		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7551		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
D6701		PN323B	PHOTO DIODE	1	
D7501		MA4068	DIODE	1	
D7504		MA165	DIODE	1	
D7507		MA165	DIODE	1	
D7510,11		MA165	DIODE	2	
D7513		MA165	DIODE	1	
D7516		MA165	DIODE	1	
D7530		MA165	DIODE	1	
D7532-35		MA165	DIODE	4	
D7537-41		MA165	DIODE	5	
D7554,55		LN28RCPL	DIODE	2	
D7556		LN38GCPL	DIODE	1	
DP7501		VSL0164	DISPLAY TUBE	1	
IC6701		UPC1490HA	IC	1	
IC7501		MN187125VHP	IC	1	
IC7502		MN12261	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	
L7501		VLQEL05F221K	COIL 220UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P7501		VJS1492	CONNECTOR(FEMALE)	1	
P7502		VJS2174W	CONNECTOR	1	
P7505		VJS2652	CONNECTOR (FEMALE)	1	
Q7501		2SD601	TRANSISTOR CHIP	1	
QR7501		UN2213	TRANSISTOR-RESISTOR	1	
QR7502		UN2212	TRANSISTOR-RESISTOR	1	
QR7525		UN2216	TRANSISTOR	1	
			RESISTORS		
R6701		ERDS2TJ124	C.RESISTOR 1/4W 120K	1	FOR VEP06380G
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	FOR VEP06500G
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R6703		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	FOR VEP06500G
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7512		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7513		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R7514		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-27		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	5	
R7530-32		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7533		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7534		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7535		ERDS1TJ5R1	C.RESISTOR 1/2W 5.1	1	
R7538		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7540		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7544		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7546		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7549		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7550		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7552-54		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	3	
R7555		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7561,62		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
SW7504		EVQ11407K	SWITCH	1	
SW7509		EVQ11407K	SWITCH	1	
SW7512		EVQ11407K	SWITCH	1	
SW7517		EVQ11407K	SWITCH	1	
SW7527		EVQ11407K	SWITCH	1	
SW7532-46		EVQ11407K	SWITCH	15	
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	FOR VEP06380G
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD1361	LED HOLDER	1	
		VJF0706	FIP HOLDER	1	
	■	VEP07544C	TIMER C.B.A.		NV-L25B(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
					[SUPPLIED FROM M.B.V]
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H331KB	C.CAPACITOR 50V 330P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C7503,04		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C7505		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7507		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7508,09		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C7510		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7513		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
D6701		PN323B	PHOTO DIODE	1	
D7501		MA4068	DIODE	1	
D7502		MA165	DIODE	1	
D7507,08		MA165	DIODE	2	
D7510		MA165	DIODE	1	
D7513		MA165	DIODE	1	
D7516,17		MA165	DIODE	2	
D7530		MA165	DIODE	1	
D7532-35		MA165	DIODE	4	
D7537-41		MA165	DIODE	5	
D7554,55		LN28RCPL	DIODE	2	
D7556		LN38GCPL	DIODE	1	
DP7501		VSL0164	DISPLAY TUBE	1	
IC6701		UPC1490HA	IC	1	
IC7501		M37422V4AF	IC	1	
IC7502		MN1226	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	
L7501		VLQEL05F221K	COIL 220UH	1	
P7501		VJS1492	CONNECTOR(FEMALE)	1	
P7502		VJS2174	CONNECTOR (FEMALE)	1	
P7505		VJS2652	CONNECTOR (FEMALE)	1	
Q7501		2SD601	TRANSISTOR CHIP	1	
QR7501		UN2213	TRANSISTOR-RESISTOR	1	
QR7502		UN2212	TRANSISTOR-RESISTOR	1	
QR7525		UN2216	TRANSISTOR	1	
			RESISTORS		
R6701		ERDS2TJ124	C.RESISTOR 1/4W 120K	1	FOR VEP06380G
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	FOR VEP06500G
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R6703		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	FOR VEP06500G
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7512		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7513		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R7514		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7515-22		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	8	
R7523-27		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	5	
R7531,32		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7533		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7534		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7535		ERDS1TJ5R1	C.RESISTOR 1/2W 5.1	1	
R7538		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7540		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7541		ERJ6GMYK106	M.RESISTOR CH 1/10W 10M	1	
R7542		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R7544		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7546		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7550		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7552-54		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	3	
R7555		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7556		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R7557,58		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
SW7504		EVQ11407K	SWITCH	1	
SW7509		EVQ11407K	SWITCH	1	
SW7512		EVQ11407K	SWITCH	1	
SW7517		EVQ11407K	SWITCH	1	
SW7527		EVQ11407K	SWITCH	1	
SW7532-45		EVQ11407K	SWITCH	14	
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	FOR VEP06380G
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD1361	LED HOLDER	1	
		VJF0706	FIP HOLDER	1	
	■	VEP05137D	HEAD AMP C.B.A.		NV-L25EG(NLA)
		VEP05137A			NV-L25B(NLA)
			CAPACITORS		
C501		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C502		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C505		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C507		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C508		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C509		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C510,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C512		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C513		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C514		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C515		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C516		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C517		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C518		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C522		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	NV-L25B

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C523		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C524		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C525		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C526		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	NV-L25B
C527		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	NV-L25B
C528		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C529		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C530		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C531		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C532		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C533		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C534,35		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C536		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C537		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C538		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C539		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C540		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C541		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C542		ECCF1H080DC	C.CAPACITOR 50V 8P	1	
IC501		BA7274S	IC	1	
L501		VLQEL05F101K	COIL 100UH	1	
L503		VLQEL05F270K	COIL 27UH	1	
L504		VLQEL05F101K	COIL 100UH	1	
L505		VLQEL05F820K	COIL 82UH	1	
L506		VLQEL05F151K	COIL 150UH	1	
P002		VJS1449	CONNECTOR(FEMALE)	1	
P501		VJP1931T	CONNECTOR (MALE)	1	
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q502		2SC2295	TRANSISTOR	1	
QR501		DTC363EK	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R501		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R502		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R503		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R504		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R506		ERJ6GMYJ204	M.RESISTOR CH1/10W 200K	1	
R507		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R508		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R509		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R510		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R512		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R513		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R515		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R518		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R519		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R520		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	NV-L25B
R523		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R524		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R525		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R526		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R527		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R528		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R529		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R530		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R531		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R532		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R533		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R534-36		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	3	
VR501		EVND1AA00B23	V.RESISTOR 2K	1	
VR502		EVND1AA00B13	V.RESISTOR 1K	1	
			MISCELLANEOUS		
		VSC2668	SHIELD BOX(TOP)	1	
		VSC2669	SHIELD BOX(BOTTOM)	1	
		VSC2670	SHIELD BOX(MAIN)	1	
	■	VEP06558G	OPERATION C.B.A.		NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
	■	VEP06558A	OPERATION C.B.A.		NV-L25B(NLA)
					[SUPPLIED FROM M.B.V]
			CAPACITORS		
C4301		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4302		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C6201		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C6202		ECEA1HK010	E.CAPACITOR 50V 1U	1	
D6203		LN28RCPP	LED	1	
J4301		VJJ0214	MIC JACK	1	
P6201		VJP2652	CONNECTOR (MALE)	1	
P6202		VJP1244T	CONNECTOR(MALE) 4P	1	
PP6201		VJP2648	CONNECTOR (MALE)	1	
PS4301		VJS2648	CONNECTOR (FEMALE)	1	
Q4301		2SC2405	TRANSISTOR	1	
Q4302		2SA1034	TRANSISTOR	1	
			RESISTORS		
R4301		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4302		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R4303		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4304		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4305		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4306		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4307,08		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6201		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R6202		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6207		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
SW6201-07		EVQ11407K	SWITCH	7	
SW6210		EVQ11407K	SWITCH	1	NV-L25B

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
SW6211		VSS0187	SWITCH	1	
SW6213		VSS0236	SWITCH	1	
VR3004		EWAKFKXC3B24	V.RESISTOR 20K	1	
			MISCELLANEOUS		
		VMD0504	LED HOLDER	1	
		VGU4553	KNOB	2	
	■	VEP01379D	POWER C.B.A.		NV-L25EG(NLA)
					[SUPPLIED FROM M.B.V]
	■	VEP01379C	POWER C.B.A.		NV-L25B(NLA)
					[SUPPLIED FROM M.B.V]
			CAPACITORS		
C1101		ECQU2A154MNB	P.CAPACITOR 100V 0.15U	1	NV-L25EG
C1101		ECQU2A563MNB	P.CAPACITOR 100V 0.056U	1	NV-L25B
C1102		ECQU2A104MN	P.CAPACITOR 100V 0.1U	1	NV-L25EG
C1102		ECQU2A333MN	P.CAPACITOR 100V 0.033U	1	NV-L25B
C1108		ECOS2GU820	C.CAPACITOR 400V 82P	1	
C1109		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1110		ECQE6473JZ	P.CAPACITOR 630V 0.047U	1	
C1111		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1113		ECQB1H472KZ	P.CAPACITOR 50V 4700P	1	
C1114		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1115		ECQB1H472KZ	P.CAPACITOR 50V 4700P	1	
C1117		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1118		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1119,20		ECEA1DFZ681X	E.CAPACITOR 20V 680U	2	
C1121		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1122		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1123		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1124,25		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1126		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1127		ECEA0JFZ471	E.CAPACITOR 6.3V 470U	1	
C1128-31		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1132		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1134,35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	
C1136		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C1137		ECQV1H223JS	P.CAPACITOR 50V 0.022U	1	
C1142		VCC0021	.CAPACITOR V	1	
C1145		VCC0021	.CAPACITOR V	1	
C1147		VCC0022	C.CAPACITOR 1000P	1	
C1149		ECKF1H821KB	C.CAPACITOR 50V 820P	1	
D1102		S1WBA60	DIODE	1	
D1103		VSD0002	DIODE	1	
D1104		AP01C	DIODE	1	
D1105		MA178	DIODE	1	
D1106		MA4039	DIODE	1	
D1107		MA165	DIODE	1	
D1108		ERA22-02	DIODE	1	
D1109		RL2ZP	DIODE	1	
D1110		MA185	DIODE	1	
D1111		11EQS04	DIODE	1	
D1112		ERB83-004L17	DIODE	1	
D1113		MA2200B	DIODE	1	
D1114		MA4130L	DIODE	1	
IC1101		STRD1816	IC	1	
IC1102		STK5392	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L1101		ELF18D290A	FILTER	1	NV-L25EG
L1102		ELF18D290A	FILTER	1	
L1103		VLQ0335	COIL	1	
P1101		VJP1394T	CONNECTOR(MALE)	1	
P1102		VJS2625	CONNECTOR (FEMALE)	1	
Q1102		2SD1330	TRANSISTOR	1	
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	NV-L25EG
R1102,03		ERG2SJ823	M.RESISTOR 2W 82K	2	
R1104		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1106		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1108		ERD2FCVG182	C.RESISTOR 1/4W 1.8K	1	
R1111		ERG2SJ181	M.RESISTOR 2W 180	1	
R1113		ERG1SJ182E	M.RESISTOR 1W 1.8K	1	
R1114		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1118		ERDS2TJ1R0	C.RESISTOR 1/4W 1.0	1	
R1123,24		ERDS2TJ153	C.RESISTOR 1/4W 15K	2	
R1125		ERW1PK2R2	WIRE WOUND 2W 2.2	1	
T1101		VLT0571	TRANSFORMER	1	
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	<!>
		VMZ1183	CAPACITOR COVER	1	
		VMZ1184	CAPACITOR COVER	1	
	■	VEP66079F	REMOTE CONTROLLER C.B.A.		NV-L25B(NLA)
		VEP66079G			NV-L25EG(NLA)
			CAPACITORS		
C6801		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6802		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	1	
C6803		ECEV1CAN4R7	E.CAPACITOR 16V 4.7U	1	
C6804		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6805,06		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6807-09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C6810-12		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	3	
D1		LN247RCALUVT	DIODE	1	
D6801		SE303ACYTF	DIODE	1	
D6802-12		MA221	DIODE	11	
D6813		MA221	DIODE	1	NV-L25EG
D6818		MA221	DIODE	1	NV-L25EG
IC6801		MN158453VHM	IC	1	
IC6802		AN8355S	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L6801		ELT3K017B	COIL	1	
Q1		PN147-RSVT	TRANSISTOR	1	
Q6801		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q6802		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q6803		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
QR6802		FA1A4M	RESISTOR-RESISTOR	1	
QR6803		FA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R14		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R15		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R16		ERJ6GMYJ334	M.RESISTOR CH1/10W 330K	1	
R6801		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R6802-04		ERJ6GMYJ474	CHIP 1/10W 470K	3	
R6805,06		ERJ6GMYJ682	CHIP 1/10W 6.8K	2	
R6807		ERJ8GCYJ120	M.RESISTOR CH 1/8W 12	1	
R6808		ERJ8GCYJ150	M.RESISTOR CH 1/8W 15	1	
R6809		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R6810		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R6811		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R6812		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R6813		ERJ6GMYJ120	CHIP 1/10W 12	1	
SN6801		VSQ0567	SENSOR	1	
VR6801		EVNDXAA03B34	V.RESISTOR 30K	1	
X6801		VSX0245	CRYSTAL OSCILLATOR	1	
X6802		EFBAL30D001K	CRYSTAL OSCILLATOR	1	
	■	VEP00K88C	FE HEAD C.B.A.		(NLA)
			CAPACITORS		
C1401		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C1402		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C1403		ECQB1H333KH	P.CAPACITOR 50V 0.033U	1	
CR1401		EXED103Z333	C & R	1	
L1401		VLQEL05F101K	COIL 100UH	1	
P1502		VJP1148	CONNECTOR	1	
Q1401		2SD636	TRANSISTOR	1	(R)
T1401		EIQ7QF012Q	TRANSFORMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VXA3554	MECHANISM CONNECTION C.B.A.		(NLA)
P1504		VJS2342W	CONNECTOR 13P	1	
P1505		VJP1242T	CONNECTOR 2P	1	
IC1501		ON2170	PHOTO COUPLER	1	
D1501		GL450	LED	1	
R1501,02		ERJ8GCYJ223	CHIP 1/8W 22K	2	
			MISCELLANEOUS		
		VMB2020	EARTH SPRING	1	
		VMD0911	LED SPRING	1	
		VSS0175	MODE SW	1	
		VES0489	SAFETY SW	1	
	■	VEK3578	PHOTO TR.(S) C.B.A.		(NLA)
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
Q1501		PN150NV	PHOTO TR	1	
			MISCELLANEOUS	1	
		VMD0645	PHOTO TR HOLDER	1	
			PHOTO TR.(T) C.B.A.		THIS PART IS INCLUDED
					IN SLIDE SW UNIT
					(VXA3498).
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
P1508		VJS2165	CONNECTOR 6P	1	
Q1502		PN150NV	PHOTO TR	1	
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO TR HOLDER	1	